GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	History and technical monuments, PG_00065193		
Field of study	Technical Physics		
Date of commencement of studies	February 2024	Academic year of realisation of subject	2024/2025
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	e-learning
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Zakład Systemów i Urządzeń Energetyki Cieplnej -> Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Michał Klugmann	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

E-learning hours included: 30.0

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	30	2.0	18.0	50

Subject objectives

Introducing students to the general history of technology with a broader discussion of selected fields. Explaining the role of technical progress as a key factor in human development. Discussion of controversies, doubts as well as ethical and ecological aspects of progress. Sensitivity to the value of heritage, its culture-forming role and the need to protect. Familiar with the formal, legal and practical issues of protection of technical monuments.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student is aware of the importance of the historical heritage for the development of both the technology itself and the wider awareness - ethical, ecological, aesthetic. Is aware of the importance of the humanistic foundation in the work of an engineer.	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness
[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student is able to perform basic activities related to the inventory and formal protection of historical items. He knows the principle of operation and the historical context of the basic objects of technology to the extent that allows them to be classified and described.	[SW1] Assessment of factual knowledge
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student knows the history of the basic branches of technology encountered in everyday life. Is aware of the historical value of objects, can place them in the chronology of development.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject

<table>
<tr><td>Subject contents</td><td>1. Introduction - defining concepts, classification.
2. The uniqueness of man and civilization against the background of the Earth and the universe.
3. Different views on technical progress - determinants, effects, historical perception and evaluation, controversy, doubts, astray, future perspectives. (1 + 2 + 3 = 4 hours)
4. Technique chronology (10 hours):

• Epochs and technological breakthroughs; conditions, philosophical foundation, political context and climate,
• Key inventions of individual epochs,
• People of technology - biographical threads.

5. Thematic block (14 hours):

• Construction and architecture,
• Photography,
• Cinematography,
• TV,
• Water supply and sewage systems,
• Computers,
• Nuclear energy.

6. Formal and legal aspects of technical monuments protection (2 hours).</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Written exam</td><td>56.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>No english literature yet.</td></tr><tr><td>Supplementary literature</td><td>No english literature yet.</td></tr><tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:
Historia i zabytki techniki - Moodle ID: 41603
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41603</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. Are we unique and unique in the world and the universe?

2. The industrial revolution - what shaped our world?

3. Fire, water and other foundations of civilization.

4. The Venetian Card - why don't we (re) build cities from old photos?

5. Epidemics - a sudden return of a forgotten past on the example of the Covid-19 pandemic.

6. Russo - Ukrainian war - clash of technical epochs.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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