GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	The Fates of Civilization, PG_00068854		
Field of study	Mechanical and Medical Engineering, Mechatronics, Mechanical Engineering, Management and Production Engineering		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division of Thermal Power Systems -> Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Michał Klugmann	
	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	0.0	0.0	15

Subject objectives

Introducing students to the universal history of technology with a broader discussion of selected fields. Discussing the chronology of the development of technical civilization built by humans from prehistoric times to the end of the 20th century. Explaining the role of technical progress as a key factor in the development of humanity. Discussing controversies, doubts, and ethical and ecological aspects of progress. Raising awareness of the value of heritage, its culture-forming role and the need for protection. Familiarizing students with the formal, legal and practical issues of protecting technological monuments.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student is aware of the significance of historical heritage for the development of both technology itself and broader awareness - ethical, ecological, aesthetic. Is aware of the significance of the humanistic foundation in the work of an engineer.	[SU3] Assessment of ability to use knowledge gained from the subject
[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 inventory and formal protection of historical objects. Knows the operating principle and historical context of basic technical objects to a degree that allows them to be classified and described.	[SW1] Assessment of factual knowledge
[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 listener knows the historical outline of the basic branches of technology encountered in everyday life. Is aware of the value of historical objects, is able to place them in the chronology of development.	[SK4] Assessment of communication skills, including language correctness

<table>
<tr><td>Subject contents</td><td>Course content – lecture
1. Different perspectives on technological progress - determinants, effects, perception and assessment in historical cross-section, controversies, doubts, aberrations, prospects for the future. Chronology of technology (4 hours):

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

5. Thematic block (10 hours):

• Photography,
• Cinematography,
• Television,
• Water supply and sewage,
• Nuclear energy.

6. Formal and legal aspects of the protection of technological monuments (1 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 rowspan="3">Recommended reading</td><td>Basic literature</td><td>No English literature jet.</td></tr><tr><td>Supplementary literature</td><td>No English literature jet.</td></tr><tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. Are we unique and one of a kind in the world and the Universe?
2. The Industrial Revolution what shaped our world?
3. Fire, water and other foundations of civilization.
4. The Venice Charter why dont we (re)build cities from old photographs?
5. Epidemics the sudden return of a forgotten past.</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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