GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	The Fate of Civilization, PG_00071041
Field of study	Mathematics

Date of commencement of studies	October 2025	Academic year of realisation of subject	2025/2026
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	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: dr hab. inż. Michał Klugmann

Lesson types	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						
	eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=4645						

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 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_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
	[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

Subject contents	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).
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	assessment - multimedia presentation or film	56.0%	100.0%

Recommended reading	Basic literature	No English literature jet.
	Supplementary literature	No English literature jet.
	eResources addresses	

Example issues/ example questions/ tasks being completed	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.
Practical activites within the subject	Not applicable

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