

## Subject card

Outlie of second and	Technology and Civilization DC 00056493								
Subject name and code	Technology and Civilization, PG_00056482								
Field of study	Mechanical and Medical Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	first-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	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Owczarzak						
	Teachers	dr inż. Wojciech Owczarzak							
Lesson types and methods of instruction	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 i classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	Presentation of the development of civilization and technology from the dawn of humanity to the present day.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
Subject contents	Definitions: techniques, civilization, culture. The key invention of mankind is a container for transporting fire. Migrations. Paleolithic: first mechanical tools, first construction of seats. Neolithic: circle and circle. Bronze: mechanical processing of metals. Iron: the beginnings of metallurgy, plastic working of metals, precise tools in applied and decorative arts. Antiquity: a girder as a structural element, skeletal structures in shipbuilding, a pulley, a screw conveyor, an arch in construction, aqueducts as the first waterworks, a throwing weapon. Theodolite prototype. The development of philosophy and mathematics. Middle Ages: printing press, water wheel and windmills: mechanical gears, mechanical energy accumulators, trigger mechanisms. Artesian wells. Renaissance: da Vinci designs, the constructions of Galileo, Kepler, Gilbert, Newton. The French Revolution: The Guillotine. Industrial revolution: steam engine, mechanical spinning mill, programmable weaving machine, mines, Bessemer steel mills, riveted bridge, steel ships, railroads, tunnels, planes, tanks, telegraph, telephone, radio, internal combustion engine, car, production line, machine gun, patent law. World War I: mechanization of works, development of high-rise construction, construction of large machines (turbines), bridges, tunnels, canals; diesel engine, jet plane, rocket, tank. Present: space mechanics, nanomechanics, ecomechanics.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	The presentation		50.0%		100.0%				
Recommended reading	Basic literature  1. Calendar of the history of the world. PWN Encyclopedia. 2005 2.  History of the world. PWN Encyclopedia. 2008								
	Supplementary literat	1. The Great PWN Encyclopedia, 2008							
	eResources addresses Adresy na platformie eNauczanie:								

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Example issues/ example questions/ tasks being completed	The impact of the indicated discovery / invention on the development of civilization.
	The most important technical achievements of the Bronze Age Stonehenge's hypothetical functions
Work placement	Not applicable

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