

Subject card

Cubicat name and cada	Technology and Civilization, PG, 00056487								
Subject name and code Field of study	Technology and Civilization, PG_00056487 Mechatronics, Mechanical Engineering, Transport and Logistics, Design and Construction of Yachts, Naval								
Date of commencement of studies	Architecture and Offshore Structures 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			
•	general academic profile					assessment			
Learning profile			Assessment form						
Conducting unit	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology						ririology		
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		dr inż. Wojciech Owczarzak						
,	Lesson type Lecture		Tutorial Laboratory Projec			t Seminar SUM			
Lesson types and methods of instruction	Number of study	15.0	0.0	Laboratory Project 0.0 0.0			0.0	15	
	hours		0.0		0.0				
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		2.0		8.0		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						fication		
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications					[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		of selected issues related to the development of technology in particular eras of human history.			[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information			
	[K6_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		development of technology in			[SK2] Assessment of progress of work [SK3] Assessment of ability to organize work			
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	Subject passin	Passing threshold			Percentage of the final grade				
and criteria	The presentation		50.0%			100.0%			

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Recommended reading	Basic literature	Calendar of the history of the world. PWN Encyclopedia. 2005 2. History of the world. PWN Encyclopedia. 2008			
	Supplementary literature	1. The Great PWN Encyclopedia, 2008			
	eResources addresses	Adresy na platformie eNauczanie:			
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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