

Subject card

Subject name and code	Technology and Civilization, PG_00005028								
Field of study	Management and Production Engineering, Management and Production Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Machin	Vehicles -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor		dr inż. Wojciech Owczarzak						
of lecturer (lecturers)	Teachers		dr inż. Wojciech Owczarzak						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 stud plan		Participation in consultation hours		Self-study SUI		SUM	
	Number of study hours	15		0.0		0.0		15	
Subject objectives	Presentation of development of civilisation and technology since the beginning of mankind								
Learning outcomes	Course out	Subject outcome			Method of verification				
Subject contents	Definitions: technology, civilisation, culture. Key invention – container for transport of fire. Migrations. Paleolithic Age: first mechanical tools of stone, bone, wood, first shelter structures. Neolithic Age: circle, wheel, pottery, furniture. Bronze Age: copper and silver mines, advanced metalwork. Iron Age: metallurgy, forgery, iron weapon, advanced tools in trade and fine art. Ancient Age: structural beam, arch and integral body and frame structure in shipbuilding and architectural engineering, water supply system (aqueduct) block and tackle, screw conveyer, theodolite; development of philosophy and mathematics. Renaissance: da Vinci's projects, Galileo's, Kepler's, Gilbert's, Newton's constructions. French Revolution: guillotine. Industrial Revolution: steam engine, mechanical spinning mule, programmable loom, Bessemer converter, iron bridge, steel hull, railway, motorcar, aircraft, submarine, tank, machine gun, telegraph, telephone, radio, production line; patent law. I ÷ II World War Period: production mechanisation, skyscraper, powerful machine (turbine), diesel engine, jet, racket, large: bridge, tunnel, dam, channel. Contemporaneity: space mechanics, nanomechanics, ekomechanics.								
Prerequisites and co-requisites	No introductory knowlege is required.								
Assessment methods	Subject passing criteria		Pass	Passing threshold		Percentage of the final grade			
and criteria	Presentation		50.0%			100.0%			
Recommended reading	Basic literature		Kalendarium dziejów świata. Encyklopedia PWN. 2005 2. Historia świata. Encyklopedia PWN. 2008						
	Supplementary literature		1. Wielka Encyklopedia PWN, 2008						
	eResources addresses Adresy na platformie eNauczanie: TECHNIKA A CYWILIZACJA W, ZiIP sem.05, zimowy 22/23 PG_00005028 - Moodle ID: 27104 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27104								

Data wydruku: 20.04.2024 07:41 Strona 1 z 2

Example issues/ example questions/ tasks being completed	Influence of a discovery / invention upon civilization.			
	The most important achivements in Bronze Ege			
	Hypothetical functions of Stonehenge			
Work placement	Not applicable			

Data wydruku: 20.04.2024 07:41 Strona 2 z 2