

Subject card

Date of commencement of studies	Cubicat name and add	Technology and Civilization, PG_00056482							
Date of commencement of studies Academic year of realisation of subject 2023/2024	Subject name and code	-							
Education level Inst-cycle studies Subject group Mode of study Full-time studies Mode of delivery e-learning	•	· ·							
Mode of study Full-time studies Mode of delivery e-learning		October 2023					2023/2024		
Semester of study	Education level	first-cycle studies		Subject group					
Semester of study Learning profile Genducting unit Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology Name and surname of lecturer (lecturers) Lesson types and methods of instruction Learning activity and number of study hours Learning activity and number of study hours Learning activity Presentation of the development of civilization and technology from the dawn of humanity to the present day hours Learning outcomes Course outcome [K6, K01] feels the need for self- realization by learning throughout lite, is looking for modern and linovative solutions in their actions, is able to dientify and formulate simple engineering tasks related to the diagnostics of the technical condition of machines and adveces using apopropriate methods, setchiques and formulate simple engineering tasks related to the diagnostics of the technical condition of machines and adveces using apopropriate methods, techniques and formulate simple engineering tasks related to the diagnostics of the technical condition of machines and adveces using apopropriate methods, techniques and flooridated in production systems Subject contents S	Mode of study	Full-time studies		Mode of delivery			e-learning		
Learning profile	Year of study	1		Language of instruction			Polish		
Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology	Semester of study	1		ECTS credits			1.0		
Name and surname of lecturer (lecturers) Lesson types and methods of instruction Learning activity and number of study hours Learning activity plan Number of study 15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Learning profile	general academic profile		Assessment form			assessment		
Name and surmame of lecturer (lecturers)	Conducting unit	Institute of Mechanics	Design -> Faculty of Mechanical Engineering and Ship Technology						
Lesson types and methods of instruction Learning activity and number of study hours		Subject supervisor dr inż. Wojciech Owczarzak							
Of instruction Number of study hours E-learning hours included: 15.0 Learning activity and number of study hours Learning activity Learning activity Number of study hours Participation in included: 15.0 Learning activity Number of study hours Number of study hours Presentation of the development of civilization and technology from the dawn of humanity to the present day life, is looking for modern and linnovative solutions in their actions, is able to think creatively and act in an entrepreneurial way [KG_KO1] feels the need for self-realization by learning throughout life, is looking for modern and linnovative solutions in their actions, is able to think creatively and act in an entrepreneurial way [KG_VO1] is able to take diagnostics of the technical condition of machines and devices using appropriate methods, techniques and tools [KG_WO12] has detailed, theoretically founded knowledge of methods and techniques used in production quality control processes, statistical process control, modern techniques and measurement systems in quality assurance and information techniques in production systems Definitions: techniques, civilization, culture. The key invention of mankind is a container for transporting free mechanical processing of metals iron, the beginnings of metals liron, the petitoric programmable wealty and windmilis: mechanical genes, mechanical energy accumulators, between the wheel and windmilis: mechanical genes, mechanical energy accumulators, burinery micrority and windmilis: mechanical, energy accumulator, between the mechanical genes, mechanical energy accumulator, burinery micrority and windmilis: mechan	of lecturer (lecturers)	Teachers		dr inż. Wojcie					
Definition Number of study 15.0 0.0 0.0 0.0 0.0 0.0 15	Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM
Learning activity and number of study hours Learning activity Participation in didactic classes included in study plan 1.0 9.0 2.5		,	15.0	0.0				0.0	15
Classes included in study plan		E-learning hours inclu	uded: 15.0						-
Presentation of the development of civilization and technology from the dawn of humanity to the present day Course outcome		ly hours classe					Self-study		SUM
Course outcome Subject outcome Method of verification					1.0		9.0		25
[K6_K01] feels the need for self-realization by learning throughout life, is looking for modern and innovative solutions in their actions, is able to think creatively and act in an entrepreneurial way [K6_U11] is able to identify and formulate simple engineering tasks related to the diagnostics of the technical condition of machines and devices using appropriate methods, techniques and tools	Subject objectives	Presentation of the development of civilization and technology from the dawn of humanity to the present day.							
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manomedianics, econiectianics.	Subject contents	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							

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Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	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 literature	1. The Great PWN Encyclopedia, 2008				
	eResources addresses Adresy na platformie eNauczanie:					
		Technika a cywilizacja - Moodle ID: 34986 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34986				
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 function	s				
Work placement	Not applicable					

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