

Subject card

Subject name and code	Industrial Revolution, PG_00060397							
Field of study	Mechanical and Naval Engineering							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies		Subject group					
Mode of study	Part-time studies		Mode of delivery			e-learning		
Year of study	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			2.0		
Learning profile	general academic profile		Assessmer	Assessment form		assessment		
Conducting unit	Zakład Systemów i Urządzeń Energetyki Cieplnej -> Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Michał Klugmann					
	Teachers		dr hab. inż. Michał Klugmann					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	18.0	0.0	0.0	0.0		0.0	18
	E-learning hours included: 18.0							
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	18		0.0		0.0		18
Subject objectives	Discussion of the industrial revolution as a process that shaped the modern world - that is, the period from the eighteenth century to modern times, against the background of the timeline of the universal history of technology. Discussion of selected fields of technology developed in this period, profiles of technical people and selected inventions. Explanation of the role of technical progress as a key factor in the development of humanity. Discussion of controversies, doubts and ethical and ecological aspects of progress.							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_W15] possesses a knowledge necessary to understand the extechnical conditions of engineering activity, possesses knowledge on management, including quality management and running commercial enterprise, within the range of protection of intellectual property and patent law; knows general principles of creating and developing forms of individual entrepreneurship and basic HSE rules applicable to machine industry	The student is able to perform basic activities related to inventory and formal securing items historical. He knows the rule activities and historical context basic technical objects to the extent that they can classification and description.	[SW1] Assessment of factual knowledge				
	[K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects	The listener is aware the importance of heritage historical for development both the technique itself and broader awareness - ethical, ecological, aesthetic. It has awareness of meaning humanistic foundation in engineer's work.	[SK5] Assessment of ability to solve problems that arise in practice				
	[K6_U14] is able to analyse the operation of devices and compare the construction solutions applying usage, safety, environmental, economic and legal criteria	The student knows the historical background basic branches of technology, encountered in everyday life. He is aware of values historical items, he can place them in chronology development.	[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject				
Subject contents	 Introduction to the general history of technology, from the Stone Age to the end of the 17th century (2 hours). Industrial revolution - genesis, pillars, stages, the most important inventions, people of the era, effects (2 hours). 19th century (2 hours). 20th century (2 hours). 						
	 5. Gdansk against the backdrop of the industrial revolution, Gdansk University of Technology as the heritage and icon of the industrial revolution (4 hours). 6. History of selected fields of technology: construction and architecture, photography, cinematography, television, water supply and sewage systems, computers, nuclear energy (6 hours). 						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Essay	56.0%	100.0%				
Recommended reading	Basic literature No english literature yet.						
	Supplementary literature [1] Act of 23 July 2003 on the protection and care of monuments, Journal of Laws 2003 No. 162 item 1568						
	eResources addresses Adresy na platformie eNauczanie: Rewolucja Przemysłowa - Moodle ID: 34032 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34032						
Example issues/ example questions/ tasks being completed	 Description of the history of the selected field of technology. Biography of a selected person associated with the development of technology. 						
Work placement	Not applicable						
Work placement	Not applicable						

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