GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	History of Transport, PG_00056488		
Field of study	Mechanical and Medical Engineering		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2021/2022
Education level	first-cycle studies	Subject group	Optional subject group Humanistic-social 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	Faculty of Ocean Engineering and Ship Technology		
Name and surname of lecturer (lecturers)	Subject supervisor		
	Teachers		

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

Adresy na platformie eNauczanie:

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	15	1.0	9.0	25

Subject objectives

The lecture aims to provide important knowledge of the development of means of transport, from the earliest times to the present day, with prognosis for the coming years.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K01] he/she knows his/her proficiencies and his/her limitations in performing professional tasks, he/she is aware of needing to improve his/her skills through the whole life, he/she has entrepreneurship and innovation skills, he/she is aware of engineering skills from the society point of view	The student knows the role of transport in the development of human civilization, can also determine its negative effects	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work
[K6_K02] he/she is aware of importance of professional dealing and to fulfill ethics obligations, he/she understands other (non-technical) abilities of mechanical engineering professional, their influence on the society and security of environment, he/she is aware of importance of social cooperation	The student is able to relate the directions of development of systems and means of transport with human transport needs	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work
[K6_W11] he/she is aware of social and juridical rules and general rules of creation and developing of individual entrepreneurship, business and quality management	The student knows the historical development of systems and means of transport, especially in terms of improving technical and economic parameters	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation

Subject contents	Introductory news - causes and development of transport in human history; - technical conditions of particular types of transport; - peak performance of individual modes of transport; Water - sea transport: - antiquity (Egypt, Phoenicians, Greeks, Romans); - Middle Ages (Vikings, Slavs, great geographical discoveries, Hanseatic League, sea powers); - modernity (technical progress, passenger shipping, warships); Water transport - inland: - rafting down the Vistula in the history of Poland; - Polish folk boatbuilding; - historical shaping of the Gdańsk Water Junction; Railway transport: - the beginnings of railways in the world; - spectacular railway achievements (records, railroad in the US, Orient Ekspress) - the beginnings of railways in Poland; - development of railways in Poland (mechanization, electrification, Pm36-01, Lux Torpeda) - the historical development of the Gdańsk Railway Junction (bridges in Tczew, Żuławska Access Railway, Magistrala Węglowa)
Prerequisites and co-requisites	no requirements
Assessment methods and criteria	

Subject passing criteria	Passing threshold	Percentage of the final grade
essay (or)	60.0%	50.0%
test (or)	60.0%	50.0%

Recommended reading	Basic literature	Batchelor J. i Chant Ch., Encyklopedia statków żaglowych od 2000 p.n.e. do 2007 n.e., Warszawa 2006 Cieślak E., (red. Pracy zbiorowej) Historia budownictwa okrętowego na Wybrzeżu Gdańskim, Gdańsk 1972 Drapella Z., Zdobnictwo okrętów, Gdańsk, 1969 Kozłowski B., Dzieje okrętu, Katowice, 1956 Lech A., Architektura statków i okrętów, projektowanie i konstrukcja, Gdańsk 2010 Litwin J., Morskie dziedzictwo Gdańska, Gdańsk 1998 Mickiewicz M., Z dziejów żeglugi, Warszawa 1971 Urbański P., Pędniki okrętowe. Historia i rozwój, Gdańsk 2001 Smolarek P., Dawne żaglowce, Gdynia 1963 Smolarek P., Zabytki szkutnictwa skandynawskiego, Gdańsk 1963
	Supplementary literature	no
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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