

Subject card

Subject name and code	Fundamentals of Means of Water Transport, PG_00043726							
Field of study	Transport and Logistics, Transport and Logistics							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021		
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	2		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Damian Bocheński					
	Teachers		dr hab. inż. Damian Bocheński					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0		0.0	30
	E-learning hours included: 0.0							
	Adresy na platformie eNauczanie: Introduction to means of transport - Moodle ID: 13545 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13545							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM	
	Number of study hours	30		2.0		18.0		50
Subject objectives	To acquaint students with the structure, properties and properties of various means of transport.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport					[SW1] Assessment of factual knowledge		
	[K6_U04] has self-education skills in order to improve professional qualifications, is ready to work in industrial environment, adheres to HSE rules and regulations		The student is able to			[SU1] Assessment of task fulfilment		
Subject contents	General characteristics and classification of means of transport. Basic properties and properties of means of transport. Reciprocating combustion engines, gas turbines, steam turbines, electric motors. Drive transmission systems, gears, couplings, shafts. Motor vehicles. Breakdown of motor vehicles. Construction of motor vehicles. Trailers and semitrailers. Rolling stock: traction vehicles, wagons. Construction of traction vehicles and wagons. Planes, division of planes. Types, structure and operation of means of internal transport. Pipelines. Means of urban transport. Standardization and unification in the construction of means of transport. Directions of development of construction of means of ground and air transport.							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria Test		Passing threshold 60.0%		Percentage of the final grade 100.0%			
Recommended reading	Basic literature		Rydzkowski W., Wojewódzka - Król K., Babis H.: Transport. PWN, Warszawa, 2008.					
	Supplementary literature		Websites and catalogs of manufacturers of means of transport.					
	eResources addresses		Introduction to means of transport - Moodle ID: 13545 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13545					

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Example issues/ example questions/ tasks being completed	Division of means of transport.
	2. The principle of operation of a four-stroke internal combustion engine.
	3. Number of passengers, flight speed, ceiling of a large passenger plane.
Work placement	Not applicable

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