

Subject card

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Subject name and code	Fuels, Oil and Greases, PG_00049455								
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering, Power Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/	2021/2022		
Education level	first-cycle studies		Subject group				Obligatory subject group in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the	at the university		
Year of study	2		Language of instruction			English			
Semester of study	3		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Ship and Land Based Power Plants -> Faculty of Ocean Engineering and Ship Technology						Technology		
Name and surname	Subject supervisor		dr inż. Piotr Bzura						
of lecturer (lecturers)	Teachers	dr inż. Piotr Bzura							
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								
	Adresy na platformie eNauczanie: Fuels, Oil and Greases - Moodle ID: 17957 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17957								
	Additional information: Classes conducted remotely and conducted on the MS Teams platform								
Learning activity and number of study hours	Learning activity Participation in classes include plan					Self-s	tudy	SUM	
	Number of study hours	15	3.0		32.0		50		
Subject objectives	Gaining knowledge about fuels, oils and greases by the student								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_W06		The student is able to explain the origin, describe the properties and characterizing indices, classify and present the operational issues of fuels, oils and greases			[SW2] Assessment of knowledge contained in presentation			
	K6_K03		The student is aware of the impact of engineering activities on the environment			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	Division and origin of fuels. Resources of fossil energy resources in Poland and in the world. Production and structure of fuel consumption. Main directions of crude oil processing. Classification and physical properties of gaseous and liquid fuels - natural gas, gasoline, kerosene, diesel oil, heating oil. Classification and characteristic indicators of solid fuels - hard coal, lignite, peat. Fuel contaminants and methods of their removal. Classification, characteristics and properties of lubricating oils and greases. Guidelines for the selection of lubricants.								
Prerequisites and co-requisites									
Assessment methods	Subject passir	ng criteria	Passing threshold			Per	Percentage of the final grade		
and criteria	Test	50.0%			100.0%				

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Decembered and reading	Pasic literature	1 Molonda I : Tochnologia chomiczna, WSiD W wa 1007
Recommended reading	Basic literature	 Molenda J.: Technologia chemiczna. WSiP.W-wa 1997 Baczewski K., Kałdoński T.: Paliwa do silników o zapłonie samoczynnym. WKŁ, W-wa 2008 Baczewski K., Kałdoński T.: Paliwa do silników o zapłonie iskrowym. WKŁ, W-wa 2008 Podniało A.: Paliwa, oleje i smary w ekologicznej eksploatacji. Poradnik. WNT, W-wa, 2002. Urbański P.: Paliwa i smary. Gdańsk 1997
	Supplementary literature	Catalogs and brochures of producers of fuels, lubricating oils and technical devices
	eResources addresses	Fuels, Oil and Greases - Moodle ID: 17957 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17957
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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