

Subject card

Subject name and code	Pipelines and auxiliary equipment of energy installations (WM), PG_00042086							
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery		at the university			
Year of study	3		Language of instruction			English		
Semester of study	6		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Energy ->	ering and Ship	Techno	ology				
Name and surname	Subject supervisor		dr hab. inż. Zbigniew Kneba					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory Project		t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	0.0		15.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0				100
Subject objectives	The aim is to familiarize students with pipeline systems in industry and municipal economy							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_U05		Can calculate flow losses and balances of fluid flows in complex flow networks			[SU4] Assessment of ability to use methods and tools		
	K6_W06		He knows the rules of selecting fittings and accessories for pipelines from manufacturers' catalogs			[SW1] Assessment of factual knowledge		
	K6_U01		Uses the literature to calculate flow in pipelines		[SU2] Assessment of ability to analyse information			
Subject contents	Fluids in installations. Piping materials. Pipeline connections. Seals, fittings, Examples of combustion engine installations. Installation automation							
Prerequisites and co-requisites	Fluid mechanics, thermodynamics							
Assessment methods and criteria	Subject passin	Passing threshold			Percentage of the final grade			
	writen test		50.0%			100.0%		
Recommended reading	Basic literature	Rivero Miguel G.: Pipelines Design Applications and Safety Nova Science Publishers 2012						
	Supplementary literature		Bai Yong: Pipelines and rises Elsievres					
	eResources addresse	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Propose detachable connection for 3.0MPa 200C steam pipeline.Sketch a diagram of the city's gas supply system, marking the pressures in the pipelines							
Work placement	Not applicable							

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