



Subject card

Subject name and code	Pipelines, Fittings and accessories of Power Systems, PG_00042136						
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			2022/2023		
Education level	first-cycle studies	Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Jerzy Głuch					
	Teachers	dr hab. inż. Jerzy Głuch mgr inż. Stanisław Głuch					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	15.0	0.0	0.0	45
	E-learning hours included: 0.0						
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	45	5.0		0.0		50
Subject objectives	To acquaint students with the principles of designing industrial pipelines, both power and transmission. Tubes - their materials and connections are discussed. Industrial fittings and their automation are presented.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_U06	Calculates the pressure loss of the flow loss. Assesses the possibilities of corrosion protection.					
	K6_W09	He knows the rules of selecting accessories and fittings according to their function and parameters of the fluid flowing in the installation.					
	K6_U07	Designs installations in power plants, workplaces, municipal and gas transmission installations.					
Subject contents	Pipes - dimensions, materials. Ways of connecting pipes and fittings. Seals. Industrial fittings. Gas transmission networks. Corrosion protection. Measurement fittings. Installation automation. Examples of installation of combustion plants. Municipal installations.						
Prerequisites and co-requisites	Listening to a fluid mechanics lecture						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	written test	50.0%			100.0%		
Recommended reading	Basic literature	.					
	Supplementary literature	.					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Draw a functional diagram of the damper with electric actuator and opening control.						
Work placement	Not applicable						