

Subject card

Subject name and code	Heat Turbomachinery, PG_00042103							
Field of study	Power Engineering, Power Engineering							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of dolivory			at the university		
Year of study	3		Mode of delivery Language of instruction			English		
Semester of study	5		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
						Engineering and Ship Technology		
Conducting unit	Subject supervisor	y and industria	Apparatus ->	1 acuity of Met	Jilaliica	Liigiile	ering and Si	iip reciliology
Name and surname of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
of instruction	Number of study hours	30.0	0.0	15.0	0.0		0.0	45
	E-learning hours inclu	uded: 0.0				+		
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Participation in consultation hours		udy	SUM
	Number of study hours 45			7.0		48.0		100
Subject objectives	Basic knowledge of to	urbomachinery	principle of op	eration and turl	oomach	inery er	nrgy power p	lants.
Learning outcomes	Course outcome Subject outcome Method of veri						erification	
	[K6_W09] knows the dangers of electrical devices and the principles of protection against them, has basic knowledge of heat exchangers, has basic knowledge of power equipment such as pumps, compressors, turbines, combustion engines, boilers, pipelines and their accessories and methods of their selection depending on the needs [K6_W02] has a basic knowledge of physics (including optics, electricity and magnetism), chemistry, technical thermodynamics, fluid mechanics and general mechanics needed to understand and describe the basic phenomena occurring in devices and systems, energy plants and transmission networks and their environment [K6_U07] is able to use basic knowledge of fluid flow machines and methods related to their design in an analytical and							
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Subject contents	Basics of thermodynamical cycles. Elements of turbine power plants. Fluid problems in turbomachinery. Theory of turbine stages. Turbine flow parts.							
Prerequisites and co-requisites	Basics of mechanics, fluid mechanics and thermodynamics.							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade	
and criteria	Written exam	60.0%	100.0%	
Recommended reading	Basic literature	Perycz S., Turbiny parowe i gazowe, IMP Ossolineum, Kosowski K. ed.,Steam and Gas Turbines, Alstom, ISBN 978-83-925959-3-9, 2007		
	Supplementary literature	-		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed				
Work placement	Not applicable			

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