

Subject card

Subject name and code	Fluid-flow machinery, PG_00064858								
Field of study	Mechanical Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Specialty 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	1		Language of instruction			English none			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Energy	y and Industria	Apparatus ->	Faculty of Med	chanica	l Engine	ering and Ship	Technology	
Name and surname	Subject supervisor		dr hab. inż. Je	hab. inż. Jerzy Głuch					
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	0.0	15.0		0.0	45	
	E-learning hours inclu	i	P. L C	.		0 15 1		0.114	
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	45		6.0		24.0		75	
Subject objectives	Basic knowledge of to	urbomachinery	principle of ope	eration and turl	bomach	inery er	nrgy power pla	nts.	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_K12] is ready for fullfiling social commitement and initation of actions for public interest including entrepreneurial thinking and acting		Student take into account social demands in his prophesional activity			[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills			
	[K7_U13] evaluates the feasibility and potential for utilizing new technical and technological achievements in accomplishing tasks characteristic for the field of study		student can find modern energetical device fulfiling demands			[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	[K7_U04] creatively designs or modifies devices, processes or systems specific to Mechanics and Mechanical Engineering, using computer-aided design systems in the form of technical documentation, taking into account aspects of economic analysis, using appropriate tools and techniques		Student can design simple energetical device			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
	[K7_W03] demonstrates a well- structured and theoretically grounded knowledge of the key issues in Mechanical Engineering to enable the design and diagnosis of mechanical systems, processes and devices		Student can design simple mechanical and energetical devices			[SW1] Assessment of factual knowledge			
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	descibe steam turbine principle of operation				
Work placement	Not applicable				

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