

Subject card

Subject name and code	Heat Turbomachinery, PG_00042103							
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	on 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			English		
Semester of study	5		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Energy and Industrial		Apparatus -> Faculty of Mechanical Engineering and Ship Technology					
Name and surname	Subject supervisor		prof. dr hab. inż. Krzysztof Kosowski					
of lecturer (lecturers)	Teachers		dr inż. Wojciech Włodarski					
		prof. dr hab. inż. Krzysztof Kosowski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	30.0	0.0	15.0	0.0		0.0	45
	E-learning hours inclu	ided: 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 45 hours			7.0		48.0 100		
Subject objectives	Basic knowledge of turbomachinery principle of operation and turbomachinery enrgy power plants.							
Learning outcomes	Course out	ome Subject outcome Method of verification				fication		
	K6_W06		student is capable of: of selecting the main design parameters of turbine power plants, calculating cycles with steam and gas turbines, selecting the main design parameters of turbine stages, performing preliminary design calculations of turbine stages			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
K6_U04			student has knowledge about: - the main elements of turbine power plants,- theory of turbine stages, energy losses in turbine			[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject		
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.							
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade			
and criteria	Written exam		60.0% 100.0%					
Recommended reading			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		-					
	1 pp.oornary morat		I					

Data wydruku: 19.04.2024 02:16 Strona 1 z 2

	eResources addresses	Adresy na platformie eNauczanie:
		Heat Turbomachinery - Moodle ID: 26486 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26486
		Heat Turbomachinery - Moodle ID: 26486 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26486
		Heat Turbomachinery - Moodle ID: 26486 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26486
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

Data wydruku: 19.04.2024 02:16 Strona 2 z 2