



Subject card

Subject name and code	Team Project, PG_00055511						
Field of study	Mechanical Engineering						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2025/2026		
Education level	first-cycle studies	Subject group			Optional subject group		
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			4.0		
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 inż. Marcin Jewartowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	0.0	30
	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	30		22.0		48.0	100
Subject objectives	Verification of the acquired knowledge and skills in solving a problem in the field of thermodynamics, heat transfer, thermal power plants, heating, refrigeration or ventilation/air conditioning.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U02] is able to work in a team and individually, also in multi-disciplinary teams, is able to draw a plan of completing a construction or technological design, shows self-learning abilities	The student is able to analyze a given analytical or construction task and solve it in a group.	[SU1] Assessment of task fulfilment
	[K6_U01] is able to acquire information from specialized literary sources, databases and other resources, essential for solving engineering tasks; is able to compile the obtained information pieces and to interpret them, additionally is able to form conclusions and present justified opinion	The student is able to choose the appropriate literature and tools for the implementation of the given task. The student is able to analyze the obtained results.	[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools
	[K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools	The student is able to determine the criteria and selection of a solution to a given problem and to present the obtained results.	[SU5] Assessment of ability to present the results of task
[K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects	The student is able to solve an analytical or construction problem in a group by selecting an appropriate method of its solution.	[SK1] Assessment of group work skills	
Subject contents	Solving in groups of an analytical or construction problem in the field of thermodynamics, heat transfer, thermal power plants, heating, refrigeration or ventilation/air conditioning.		
Prerequisites and co-requisites	Knowledge from the course of Thermodynamics, Heat Transfer, Heating, Refrigeration and Air Conditioning		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	project	56.0%	100.0%
Recommended reading	Basic literature	One of the tasks of the project is a review and selection of literature. The scope is indicated individually.	
	Supplementary literature	One of the tasks of the project is a review and selection of literature. The scope is indicated individually.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Analysis of the task, setting the criteria for its implementation, choosing a solution, carrying out calculations, analyzing the results.		
Work placement	Not applicable		