



## Subject card

Subject name and code	Team project, PG_00057403						
Field of study	Mechanical Engineering						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2024/2025		
Education level	second-cycle studies		Subject group		Optional subject group		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		English		
Semester of study	2		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Energy and Industrial Apparatus -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Michał Klugmann				
	Teachers		dr hab. inż. Michał Klugmann				
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		10.0		60.0	100
Subject objectives	The students gain experience in forming groups, selecting leaders, making suggestions, creating ideas, negotiation, discussion, taking responsibility, solving conflicts, making decisions, maintainig atmosphere and learning to cooperate in groups.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U01] is able to acquire information from specialist literary sources and other sources regarding the construction and operation of machines and related disciplines in polish and in a foreign language, is able to conduct a self-learning process, is able to synthesize the information, form conclusions and justify opinions	Ability to carry out by oneself a review of scientific literature on a selected topic.	[SU2] Assessment of ability to analyse information
	[K7_U08] is able to design a procedural equipment or device compliant with the specifications using a design aid system in the form of a design documentation, selecting the appropriate model, performing critical analysis with the proper selection of tools and technologies	The effect of the work carried out by oneself.	[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment
	[K7_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning	The effect of the work carried out by oneself.	[SK5] Assessment of ability to solve problems that arise in practice
	[K7_K04] is able to establish professional contacts and is able to lead and work in a team assuming various roles in the team; is able to show resourcefulness and innovation when realizing professional projects	Motivation to search for knowledge in external sources and entities - scientific institutions, industry.	[SK3] Assessment of ability to organize work
	[K7_U04] is able to prepare and present a presentation of a solution of a construction or technological task and results of performed experiments including the analysis of the results and possible changes in Polish or in a foreign language, is able to organize and manage the work of a team, directing the tasks	The ability to present and discuss the effects of work in a public forum.	[SU1] Assessment of task fulfilment
Subject contents	Forming groups, clarifying goals and particular tasks, role of leader, types of group leaders, leadership systems, participation of individuals, allocation of responsibility, effective group characteristics, generating ideas (brain storm), encouraging ideas, encouraging individuals activity and motivation, conflicts in groups, principles of discussion, principles of negotiations, methods of manipulation, preparing presentations, organisation of meetings, problems of risk and making decisions, giving, questioning, seeking information and opinions, group atmosphere. Designing and building of technical models according to teachers instructions.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Final writing work	56.0%	75.0%
	Presentation of partial effects during classes	66.0%	25.0%
Recommended reading	Basic literature	Teaching materials will be selected by the teacher and the students will be informed about them at the beginning of the semester (according to the designed model).	
	Supplementary literature	Teaching materials will be selected by the teacher and the students will be informed about them at the beginning of the semester (according to the designed model).	
	eResources addresses	Adresy na platformie eNauczanie: Team project, winter semester 24/25 - Moodle ID: 41606 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41606">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41606</a>	
Example issues/ example questions/ tasks being completed	1. Computer support in predictive maintenance of production equipment. 2. Material characterization of carbon fiber reinforced plastic. 3. Advanced cooling systems in automobiles.		
Work placement	Not applicable		

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