



## Subject card

Subject name and code	Group Work, PG_00042027						
Field of study	Power Engineering, Power Engineering						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study 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	1		Language of instruction		English		
Semester of study	2		ECTS credits		2.0		
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 inż. Paweł Szymański				
	Teachers		dr inż. Paweł Szymański				
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		5.0		15.0	50
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
	[K6_U01] can obtain information from literature and other sources, organize, interpret it and draw and formulate conclusions; has the ability to self-educate, interprets the results of completed engineering tasks, is able to design simple energy systems and their systems	The student can acquire information from literature and other sources, organize, interpret and draw conclusions and formulate conclusions; has the ability to self-education, the results of engineering tasks performed, speaks English	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task
	[K6_K02] is able to work in a group taking different roles in it, can think and act in an entrepreneurial way, is aware of responsibility for their own work and responsibility for teamwork	The student is able to work in a group taking on different roles, is able to think and act in an entrepreneurial way, is aware of the responsibility for his own work and take responsibility for teamwork	[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills
	[K6_K01] is aware of the need for training and self-improvement in the profession of energy and the possibility of further education; can think and act in a creative and entrepreneurial manner; can define priorities for the implementation of an individual or group task	The student is able to organize further education and self-improvement in the field of energy industry and is able to find opportunities for further education	[SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice
	[K6_K03] is able to react in emergency situations, threats to health and life when using energy devices, is aware of the impact of engineering activities on the environment	The student knows about the risks to health and life when using power equipment, is aware of the impact of engineering activities on the environment	[SK1] Assessment of group work skills [SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness
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
	Activity during classes	70.0%	70.0%
	Attending classes	80.0%	30.0%
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:	
Example issues/ example questions/ tasks being completed	Students design energy devices in groups, e.g. solar BBQ grill, solar powered bus stop, wave power plant		
Work placement	Not applicable		