



Subject card

Subject name and code	, PG_00071325						
Field of study	Smart Renewable Energy Engineering						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	second-cycle studies		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		6.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Division of Manufacturing and Production Engineering -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Paweł Flaszyński				
	Teachers		dr hab. inż. Michał Wójcik dr inż. Karol Rejowski dr hab. inż. Ewelina Korol prof. dr hab. inż. Paweł Flaszyński dr inż. Filip Wasilczuk dr inż. Filip Kutt dr Piotr Kasprzak dr hab. inż. Beata Zima mgr inż. Alicja Bera mgr inż. Arkadiusz Jenta mgr inż. Emil Roch dr inż. Jakub Kowalski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	90.0	0.0	90
	E-learning hours included: 0.0						
	eNauczanie source addresses: Moodle ID: 5101 Team Research Project I, PG_00071325, SREE, 2025/2026 https://enauczanie.pg.edu.pl/2025/course/view.php?id=5101						
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	90		0.0		0.0	90
Subject objectives	Implementation of a team research project						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U101] is able to formulate complex research problems and adopts appropriate methods, obtaining innovative solutions, cooperating with other people, both as a leader and a team member	Teamwork in the selection of appropriate technologies and methods for the development of the designed device or system.	[SU1] Assessment of task fulfilment
	[K7_W101] is able to make an in-depth identification of key objects and phenomena related to the field of study, as well as theories that describe them and applicable analytical and design methods	Ability to design complex devices and systems using appropriate analytical methods.	[SW3] Assessment of knowledge contained in written work and projects
	[K7_K101] acknowledges the importance of knowledge related to the field of study in solving cognitive and practical problems, critically assessing the information obtained	Critical analysis of proposed design solutions in terms of feasibility, costs, and functional values.	[SK2] Assessment of progress of work
	[K7_K03] has intercultural communication competencies, essential for international energy projects, and can collaborate effectively with individuals from various cultures and backgrounds, appreciating diversity	Student is able to cooperate in a group composed of various people, including foreigners.	[SK1] Assessment of group work skills
Subject contents	Course content – project The course consists of solving a given design task by a team of students.		
Prerequisites and co-requisites	Knowledge of issues related to the fundamentals of machine design, wind turbines, technical drawing, CAD-CAM systems.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	A written report on the implementation of Part I.	100.0%	75.0%
	Schedule for Part I of the project	100.0%	25.0%
Recommended reading	Basic literature	According to the recommendations of the project supervisor and the independent search for information sources as part of the implementation of the design task.	
	Supplementary literature	According to the recommendations of the project supervisor.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	According to the project requirements and assumptions.		
Practical activities within the subject	Not applicable		

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