



Subject card

Subject name and code	Team project II, PG_00059842						
Field of study	Technical Physics						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group			Obligatory subject group in the field of study 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			Polish		
Semester of study	2	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Instytut Fizyki i Informatyki Stosowanej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marcin Dampc					
	Teachers	dr inż. Marcin Dampc					
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	15.0		30.0		75
Subject objectives	The aim of the course is learning teamwork on the physics project.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_W10] Knows general rules of starting and developing individual business initiatives, using knowledge of exact sciences.	Able to point out project results that can be valuable for industry and further developed.			[SW1] Assessment of factual knowledge		
	[K7_U06] Can apply obtained knowledge of physics to exact sciences, natural and technical sciences.	Able to apply learned earlier theoretical knowledge to solve tasks set in the project			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_K04] Can systematically work on long-term projects.	Able to plan and spread out the executed tasks in the project			[SK2] Assessment of progress of work		
	[K7_K03] Can cooperate and work in a group, performing different functions. Can make self-assessment, as well as constructively assess the effects of other persons' work.	Able to plan and spread out the executed tasks in the project			[SK1] Assessment of group work skills		
[K7_U09] Can popularize the achievements in physics and related fields of science.	Able to present results and discuss physics phenomena associated with the project.			[SU1] Assessment of task fulfilment			
Subject contents	Define the principles of teamwork. Description of activities preceding the execution of the project. Discussion of the list of proposed topics Selecting the teams (2-4 students), a leader in the team and the subject of the project. Presentation of the project concept. Acceptance of the project cost estimate. Project schedule, the division of tasks and provide a framework for individual team collaboration. The evaluation of the progress of the project during its implementation and consultation on partial results. Presentation of the final results of the project.						
Prerequisites and co-requisites	Depends on the type of project						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Team work	50.0%	20.0%
	Presentation of the project results	50.0%	20.0%
	Division of work between the team members	50.0%	20.0%
	Originality of solutions	50.0%	20.0%
	Partial execution of tasks	50.0%	20.0%
Recommended reading	Basic literature	Depends on the type of project	
	Supplementary literature	Depends on the type of project	
	eResources addresses	Adresy na platformie eNauczenie: Projekt zespołowy II 2023/2024 - Moodle ID: 34403 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=34403	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Design, engineering and testing of the detector and data acquisition system for high resolution optical monochromator. 2. Current-voltage characteristics and emission spectra of light-emitting diodes 3. Photophysical properties of electron donor : electron acceptor systems applied in organic light emitting diodes. 		
Work placement	Not applicable		