



## Subject card

Subject name and code	Diploma/Final Project, PG_00031959						
Field of study	Technical Physics						
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 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	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Division of Electron Collisions Physics -> Institute of Physics and Applied Computer Science -> 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	60.0	0.0	60
	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	60		5.0		35.0	100
Subject objectives	Organization of the master's thesis writing process. Introducing the graduate to complex problems of innovative technologies and creative approaches to solutions						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K04] Can systematically work on long-term projects.		Preparation of a diploma project		[SK2] Assessment of progress of work		
	[K7_U10] Can determine interests related to the field of study and develop them.		The ability to define the problem for scientific research.		[SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_U05] Can plan and conduct theoretical calculations, experimental research and computer simulations, critically analyze their results, draw conclusions and form reasoned opinions.		Ability to conduct experimental and theoretical scientific research in the field of physics		[SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_W01] Has extended and systematized knowledge of the basics of physics.		Knowledge of the basics of general physics.		[SW1] Assessment of factual knowledge		
	[K7_U01] Can learn independently, obtain and integrate information from literature, databases and other properly selected sources (in Polish and English). Can critically analyze and select information. Can use patent information resources.		Ability to conduct a literature study. Ability to prepare a bibliography		[SU1] Assessment of task fulfilment		
	[K7_U04] Can formulate and test hypotheses related to research problems.		Verification of thesis hypotheses		[SU1] Assessment of task fulfilment		
Subject contents	Solving advanced and complex specific or general problems from a selected sector of innovative technologies or theoretical problems of physics, depending on the topic of the diploma thesis.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Completion of a diploma project	100.0%	100.0%
Recommended reading	Basic literature	Provided by a supervisor	
	Supplementary literature	Provided by a supervisor	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Preparation of the experimental setup for determining absolute ionization cross sections in order to achieve the specified, measurement accuracy.		
Work placement	Not applicable		

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