



Subject card

Subject name and code	Cryptography, PG_00037330						
Field of study	Technical Physics						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2021/2022		
Education level	first-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	4	ECTS credits			5.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Theoretical Physics and Quantum Information -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marcin Nowakowski					
	Teachers	dr inż. Marcin Nowakowski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	E-learning hours included: 0.0 Adresy na platformie eNauczanie:						
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	10.0	55.0	125		
Subject objectives	The aim of this course is to acquaint students with the key concepts of modern cryptographic protocols, methods of information theory and coding theory applicable in cryptography and their applications in information processing.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_U03	Has basic knowledge in the field of programming methodology and techniques for selected cryptological problems.			[SU1] Assessment of task fulfilment		
	K6_U02	Can analyze and solve simple technical problems in the field of cryptographic schemes.			[SU2] Assessment of ability to analyse information		
	K6_K01	Understands the need for life-long learning. Can apply cryptographic algorithms for selected IT problems.			[SK5] Assessment of ability to solve problems that arise in practice		
K6_W05	Has basic knowledge in the classification of cryptographic algorithms.			[SW1] Assessment of factual knowledge			

