

**Subject card**

Subject name and code	Probability Theory, PG_00100977						
Field of study	Mathematics						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2025/2026		
Education level	Bachelor's studies	Subject group					
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	5	ECTS credits			7.0		
Learning profile	academic	Assessment form			exam		
Conducting unit	Institute of Mathematics -> Faculty of Mathematics, Physics and Informatics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Piotr Szuca					
	Teachers	dr Jacek Tryba dr hab. Piotr Szuca					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	45.0	45.0	0.0	0.0	0.0	90
	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	90	0.0		0.0		90
Subject objectives	The aim of the course is to familiarize the student with the basic concepts of probability theory.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
Subject contents	1. Probability space.2. Conditional probability and independence of events.3. Random variable and its probability distribution and cumulative distribution function.4. Independence of random variables.5. Expected value and variance of a random variable.6. Limit theorems.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	tests		51.0%		50.0%		
	exam		51.0%		50.0%		
	observation of the student's attitude		51.0%		0.0%		
Recommended reading	Basic literature		1. J. Jakubowski, R. Sztencel Wstęp do teorii prawdopodobieństwa, SCRIPT Warszawa 2001;2. Plucińska, E. Pluciński, Probabilistyka: Rachunek prawdopodobieństwa. Statystyka matematyczna. Procesy stochastyczne, Wydawnictwa Naukowo - Techniczne Warszawa 2000.3. W.. Kryszwicki i in. Rachunek prawdopodobieństwa i statystyka matematyczna w zadaniach4. J. Jakubowski, R. Sztencel, Rachunek prawdopodobieństwa dla (prawie) każdego, SCRIPT Warszawa 2006;				

	Supplementary literature	1. G. Krzykowski, M. Szreder Rachunek prawdopodobieństwa i statystyka matematyczna2. M. Krzyśko, Wykłady z teorii prawdopodobieństwa, WNT Warszawa 2000;3. R. Bartoszyński, D. Niewiadomska-Bugaj Probability and Statistical Inference4. Freund, Miller, Miller John E. Friends Mathematical Statistics with Applications
	eResources addresses	
Example issues/ example questions/ tasks being completed	not included	
Work placement	Not applicable	

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