University of Gdańsk

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.. Krysicki 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. Freunds Mathematical Statistics with Applications
	eResources addresses	
Example issues/ example questions/ tasks being completed	not included	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.