



Subject card

Subject name and code	SCORING MODELS, PG_00060826						
Field of study	Economic Analytics						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
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			English		
Semester of study	4	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Statistics and Econometrics -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Błażej Kochański				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45		4.0		26.0	75
Subject objectives	Assesses the credibility of the bank's client, reducing the risk by using scoring models						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W06] Knows and understands the principles of evaluating the reliability of utilized data, applying in-depth specialized knowledge in the field of economic analysis		identify reliable sources of information for the purposes of assessing the customer's creditworthiness by banks and reducing the bank's risk		[SW1] Assessment of factual knowledge		
	[K7_U04] Prepares and delivers convincing presentations of the results of specialized analyses, providing in-depth interpretations during debates and meetings with diverse audiences.		presents a professional presentation of the results of scoring analyses, making an in-depth interpretation of the proposed ratings		[SU5] Assessment of ability to present the results of task		
Subject contents	The concept of credit scoring, scoring card, creditworthiness, creditworthiness, risk assessment Typology of bank credit scoring models Data used in credit models, credit information bureaus Selection of variables, clustering (binning), missing data Problems: good/bad customer, default, loss Construction of scoring models - statistical tools and machine learning methods Reject inference method Use of logistic regression in credit risk assessment Use of classification trees Quality assessment of scoring models - confusion table, ROC curve, Gini coefficient, KS, lift Calibration of scoring models Use of scoring. Setting cut-off points, risk-based pricing Scoring model construction and implementation process, validation and monitoring Development of bank scoring models - latest trends						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Exam		60.0%		70.0%		
	Test		60.0%		30.0%		

Recommended reading	Basic literature	Naeem Siddiqi Intelligent credit scoring: building and implementing better credit risk scorecards John Wiley & Sons, 2017. Raymond A. Anderson Credit intelligence & modelling: many paths through the forest Rayan Risk Analytics, Inc., 2019
	Supplementary literature	Lyn Thomas, Jonathan Crook, David Edelman Credit scoring and its applications Society for Industrial and Applied Mathematics, 2017 Mariola Kapla: O historii kredytowej i scoringu BIK ScoringExpert, 2019
	eResources addresses	Adresy na platformie eNauzanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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