

Subject card

Subject name and code	SCORING MODELS, PG_00060921								
Field of study	Economic Analytics								
Date of commencement of studies	October 2023		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	Part-time studies (on-line)		Mode of delivery			at the	at the university		
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Statistics and Econometrics -> Faculty of Management and Economics								
Name and surname	Subject supervisor		dr Błażej Kochański						
of lecturer (lecturers)	Teachers		dr Błażej Kochański						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	Seminar	SUM	
	Number of study hours	8.0	0.0	16.0	0.0		0.0	24	
	E-learning hours inclu			1				1	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study 24 hours		4.0		47.0 75				
Subject objectives	Assesses the credibility of the bank's client, reducing the risk by using scoring models								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K7_W06] identifies reliable sources of information relevant to the analyzed issues					[SW1] Assessment of factual knowledge			
	[K7_U04] prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation		presents a professional presentation of the results of scoring analyses, making an indepth interpretation of the proposed ratings			[SU5] Assessment of ability to present the results of task			
Subject contents	 Terms: credit scoring, scoring card, creditworthiness, creditworthiness, risk assessment. Typology of bank scoring models. Data used in credit models. Credit information agencies. Selection of variables, binning, missing data. Good/bad customer, failure to repay (default), loss rate. Construction of scoring models: statistical tools and machine learning methods. Reject inference methods. The use of logistic regression in credit risk assessment. The use of classification trees. Assessment of the quality of scoring models: error table, ROC curve, Gini coefficient, KS, lift. Calibration of scoring models. Use of scores. Establishing cut-off points. Risk-based pricing. The process of building and implementing a scoring model, validation and monitoring. Evolution of banking scoring models - the latest trends. 								
Prerequisites and co-requisites		_							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Problems/project		60.0%		50.0%				
	Exam	60.0%			50.0%				

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Recommended reading	Basic literature	 Naeem Siddiqi Intelligent credit scoring: building and implement better credit risk scorecards John Wiley & Sons, 2017. Raymond A. Anderson Credit intelligence & modelling: many pa 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 eNauczanie:					
		Modele scoringowe 2025 (online) - Moodle ID: 43117 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=43117					
Example issues/ example questions/ tasks being completed	 Evaluate the discriminatory power of the model based on the data presented. Build a logistic regression model using the indicated variables. Determine the cut-off point for a scoring card with the given properties. Assess the predictive power of individual features and their importance in the model. 						
Work placement	Not applicable						

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