

Subject card

	SCODING MODELS DC 00063848								
Subject name and code	SCORING MODELS, PG_00062848								
Field of study	Economic Analytics			-					
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
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			Polish			
Semester of study	4		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics								
Name and surname	Subject supervisor		dr Błażej Kochański						
of lecturer (lecturers)	Teachers		dr Błażej Kochański						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	0.0	30.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		0.0		0.0		30	
Subject objectives	The student is able to use scoring methods, e.g. to assess the credibility of a bank customer.								
Learning outcomes	Course outcome Subject outcome M						Method of ve	rification	
	[K7_W10] has an in-depth knowledge of quantitative methods to describe and analyse socio-economic processes using information technology [K7_U08] has the ability to implement analytical methods to independently propose solutions to economic problems and verify their effectiveness		The student identifies variables enabling the assessment of creditworthiness, their sources, and their predictive power. The student is able to assess the quality of the built model. The student presents the results of modeling using statistical methods and machine learning, making an in-depth interpretation of the obtained results.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
						[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
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 point assessment. Establishing cut-off points. Risk-based pricing. The process of building and implementing a scoring model, validation and monitoring. Development 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				
	Quizzes and calculate	tion tasks	60.0%			50.0%			
	Project		60.0%			50.0%			

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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, 2017Mariola Kapla: O historii kredytowej i scoringu BIK ScoringExpert, 2019				
	eResources addresses	Uzupełniające				
		Adresy na platformie eNauczanie:				
		Modele scoringowe 2024 - Moodle ID: 35335 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35335				
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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