



Subject card

Subject name and code	QUANTITATIVE METHODS IN THE ECONOMICS OF SPORT, PG_00058523						
Field of study	Economics						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2024/2025		
Education level	first-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			e-learning		
Year of study	3	Language of instruction			Polish		
Semester of study	5	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department Of Statistics And Econometrics -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		Dagna Wleklińska				
	Teachers		Dagna Wleklińska				
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: 45.0						
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		5.0		50.0	100
Subject objectives	Describes the possibilities of using quantitative methods in terms of their selection and obtaining reliable data						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U06] acquires new knowledge by planning lifelong learning strategies.		acquires new knowledge necessary to conduct analyzes of the activities of the sports sector		[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues.		identifies reliable sources of obtaining information required to conduct analyzes of the activities of the sports sector		[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	<p>Theoretical basis of multidimensional comparative analysis.</p> <p>Application of taxonomic measure of development for multidimensional evaluation of economic objects, including players, coaches, clubs and sports facilities.</p> <p>The principles and steps of linear ordering in ranking economic facilities.</p> <p>The use of cluster analysis to group economic objects. Application of different clustering methods (agglomerative, divisional or optimization).</p> <p>Basics of sports project management, life cycle of sports projects, specifics and problems of sports project management.</p> <p>Application of multi-criteria methods to select the best project due to the adopted criteria.</p>						
Prerequisites and co-requisites	mathematics, macroeconomics, microeconomics, statistics						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	colloquium (lab)		60.0%		50.0%		
	exam		60.0%		50.0%		

Recommended reading	Basic literature	<p>Kufel, T. (2022). Ekonometria. Rozwiązania problemów z wykorzystaniem programu Gretl. Warszawa; Wydawnictwo Naukowe PWN</p> <p>Trzaskalik, T. (red.) (2014). Wielokryterialne wspomaganie decyzji. Metody i zastosowania, Warszawa: PWE</p> <p>Kopczewska, K., Kopczewski, T., Wójcik, P. (2016). Metody ilościowe w R. Aplikacje ekonomiczne i finansowe, Warszawa: CeDeWu Sp. Zo.o.</p> <p>Górecka, D. (2009). Wielokryterialne wspomaganie wyboru projektów europejskich, Toruń: TNOiK</p> <p>Walesiak, M., Gatnar, E. (2009). Statystyczna analiza danych z wykorzystaniem programu R, Warszawa: PWN</p>
	Supplementary literature	Trzaskalik, T. (red.) (2006). Metody wielokryterialne na polskim rynku finansowym. Warszawa: PWE
	eResources addresses	<p>Podstawowe</p> <p>http://han.bg.pg.edu.pl/han/ibuk-libra/https/libra.ibuk.pl/reader/ekonometria-rozwiazywanie-problemow-z-wykorzystaniem-programu-gretl-tadeusz-kufel-9303 - Kufel T., Econometrics. Problem solutions with the use of the Gretl program, Wydawnictwo Naukowe PWN, Warsaw 2022</p> <p>Adresy na platformie eNauczanie:</p> <p>Ekonomia sportu - Moodle ID: 39950</p> <p>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=39950</p>
Example issues/ example questions/ tasks being completed	<p>Ranking of sports clubs in terms of sports achievements and social impact.</p> <p>The use of multi-criteria methods to choose the best club for a player based on the adopted criteria.</p>	
Work placement	Not applicable	

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