


KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI

Projekt współfinansowany przez
Unię Europejską w ramach
Europejskiego Funduszu
Społecznego

UNIA EUROPEJSKA
EUROPEJSKI
FUNDUSZ SPOŁECZNY


Course title			ECTS code		
Information Processing for Investment Professionals			11.3.1293		
Name of unit administrating study					
Faculty of Management					
Studies					
faculty		field of study		type	
Faculty of Management		Finance and Accounting		second tier studies (MA)	
				form	
				specialty	
				specialization	
				full-time	
				null	
				null	
Teaching staff					
dr Jacek Maślankowski					
Forms of classes, the realization and number of hours				ECTS credits	
Forms of classes				4	
Auditorium classes, Lecture				0.5 p. - participation in lectures (15h), 1.5 p. -	
The realization of activities				studying literature (45h), 2 p. - preparing final	
classroom instruction				projects (60h)	
Number of hours					
Auditorium classes: 15 hours, Lecture: 15 hours					
The academic cycle					
2023/2024 summer semester					
Type of course			Language of instruction		
obligatory			English		
Teaching methods			Form and method of assessment and basic criteria for eveluation or examination requirements		
project-based method (research, implementation, practical project)			Final evaluation		
			- Graded credit		
			- Course credit		
			Assessment methods		
			assignment work – project or presentation		
			The basic criteria for evaluation		
			Final project (information processing and analysis)		
Method of verifying required learning outcomes					
Effect of education			Project method		
			Knowledge		
FiRMU2_W05			X		
FiRMU2_W09			X		
			Skills		
FiRMU2_U04			X		
FiRMU2_U09			X		
			Competencies		
FiRMU2_K02			X		
FiRMU2_K03			X		
Required courses and introductory requirements					
A. Formal requirements					
Computer skills in using spreadsheets					

B. Prerequisites Basic knowledge of Office software suites	
Aims of education The aim of the course is to familiarize students with modern data processing tools and basic sources of information (data bases) used by investment professionals.	
Course contents 1) Data sources and data storage 2) Data repositories 3) Data Warehouses, Data Mining and Business Intelligence 4) Data processing methods 5) Data quality issues 6) Internet as a data source 7) Practical applications of data processing	
Bibliography of literature •Kenneth C. Laudon, Jane P. Laudon, Management Information Systems: Managing the Digital Firm (16th Edition), Pearson, 2019 •Karen Berman, Joe Knight, John Case, Financial Intelligence, Revised Edition: A Manager's Guide to Knowing What the Numbers Really Mean Revised, 2013 •Craig S. Fleisher, Babette E. Bensoussan, Business and Competitive Analysis: Effective Application of New and Classic Methods (2nd Edition), 2015	
The learning outcomes (for the field of study and specialization) Knowledge: FiRMU2_W05 The student has an extended knowledge of advanced methods and tools, including data acquisition and analysis techniques, specific to the social sciences to describe economic structures and institutions and the processes within and between them. FiRMU2_W09 The student knows and deeply understands the grammatical structures and vocabulary of his specialty in a foreign language at the B2+ level. Student can: FiRMU2_U04 The student can forecast and model complex economic processes and phenomena in finance and accounting using advanced methods and tools appropriate to the science of finance. FiRMU2_U09 The student can use a foreign language at the B2+ level of proficiency of the Common European Framework of Reference for Languages and specialized terminology. The student has an in-depth ability to prepare written works, oral speeches and presentations in a modern foreign language on specific issues in his/her specialty, using basic theoretical approaches and various sources of information. Student demonstrates the following social competences: FiRMU2_K02 Cooperation: - the student can harmoniously interact and work in a group, assuming various roles in the group, including leadership and supervision of the group, - can agree with the group on goals and division of tasks, - is open-minded, respecting the differences of other team members. FiRMU2_K03 Communication:	Knowledge Definitions of Big Data, artificial intelligence and machine learning Basic classification algorithms used in Big Data and key features of big data tools Key machine learning techniques Key sources of information used by financial professionals Rules for data import
	Skills Select adequate statistical measures for machine learning techniques and justify the choice Find necessary information in selected databases Develop a data base for further analyses Build simple data processing algorithm Interpret results of simple data processing model
	Social competence acts as a team player or team leader to complete classroom activities or course project prepares and gives presentations moderates and participates in discussions, expresses own opinions and constructive criticism about projects of peer students

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| <ul style="list-style-type: none">- the student can present his/her view/ issue in a way that others can understand,- courageously (but prudently) expresses his opinion, is not afraid to ask questions,- can participate culturally in the discussion,- can give constructive criticism,- can communicate on specialized topics in finance and accounting with a diverse audience. | |
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Contact
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