

Subject card

Subject name and code	Master Seminar 2, PG_00157403						
Field of study	Information Science and Econometrics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	postgraduate studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		6.0		
Learning profile	academic		Assessment form				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Jerzy Auksztol				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	30.0	30
	E-learning hours included: 0.0						
	Additional information: Seminar classes						
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	30		30.0		60.0	120
Subject objectives	The aim of the master's seminar, consisting of three semester parts, is to prepare participants to: (i) plan a scientific study on the subdiscipline of business informatics, (ii) conduct it, and (iii) prepare a master's thesis on this basis, summarizing the entire process and the obtained results of the study. The additional aim is to prepare the student to effectively defend the work they have prepared before the examination committee. In the first semester, the seminar participants are to identify a research problem and, on its basis, formulate a research hypothesis indicating a possible solution and then propose a master's thesis outline discussing the actions taken. In the second semester, the seminar participants are to conduct the research specified in the first semester and prepare selected chapters of the diploma thesis.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[liEMU2_K02] The student can communicate freely with the public on specialised topics in the field of computer science and econometrics in and outside the workplace, communicate his knowledge and share his skills through various media. Culturally participates in discussions, is not afraid to ask questions and knows how to give constructive criticism.	The student is ready to participate in a creative way in a research discussion about his/her own work and that of other people participating in the seminar group. The student is ready to share his/her own achievements with the participants of the seminar group.	[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task
	[liEMU2_W04] The student has an in-depth knowledge of advanced mathematical, statistical, econometric and IT methods that enable the acquisition, processing and analysis of data reflecting the functioning and growth of the national economy and its components, as well as the phenomena and processes occurring in their environment.	The student knows and understands the subject scope of the subdiscipline of economic informatics. The student knows and understands the methods of empirical research describing or explaining socio-economic phenomena along with their limitations, where information technology plays an important role.	[SW1] oral statement/conversation/discussion [SW5] implementation of a problem task
	[liEMU2_K01] The student understands the need for continuous completion and deepening of acquired knowledge. The student inspires and organizes others' learning processes.	The student is ready, together with other seminar participants, to analyze the literature on the subject, criticize the acquired knowledge and use it when formulating the problem and research hypothesis as well as when preparing the outline of the diploma thesis.	[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task
	[liEMU2_U01] The student can comprehensibly, orally and in writing, present and justify in depth advanced economic theories and apply them to explain the functioning of the national economy and its components. Understands and can explain the content of communications from economic institutions, articles in the economic press and scientific journals.	The student is able to prepare and present the results of the conducted research along with selected chapters of the diploma thesis in any presentation form.	[SU2] presentation/project/paper/report
	[liEMU2_U09] The student has an in-depth ability to prepare written works, oral speeches and multimedia presentations on the functioning and growth of the national economy and its components, the course of complex economic phenomena and processes, the acquisition of data about them, their collection, processing and analysis with the help of modern mathematical, statistical, econometric and IT tools, as well as their use in modeling, forecasting and optimization.	The student is able to prepare and present in a chosen presentation form a research problem, a hypothesis he/she has formulated, and a master's thesis outline describing the research activities.	[SU1] oral statement/conversation/discussion [SU5] implementation of a problem task
	[liEMU2_K06] The student knows the need for ethical, sustainable and socially responsible behavior in professional and social life. Initiates and organises activities for the social environment and public interest.	The student is ready to acquire knowledge while maintaining the rights of creators of works and owners of industrial property, e.g. trademarks or patents. The student is ready to take up topics related to the environment, sustainable development and for the public interest.	[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task

Subject contents	1. The place of economic informatics among the subdisciplines of economic sciences.2. Paradigms, theories and research methods enabling research in the area of economic informatics.3. Design science research as a special category of research methods in economic informatics.4. Content, formal and editorial requirements for master's theses.5. Areas of research topics from the research category according to the design approach: • development of innovative IT systems operating in the area of electronic economy, • planning new forms of using integrated ERP management systems in economic organizations, • shaping information security systems in organizations, • shaping intellectual property management systems, • designing new business models using information technologies, • designing information systems using modern analytical tools, such as artificial intelligence and its language models, web scraping, big data. 6. Areas of research topics from the category of descriptive and explanatory research in the area of socio-economic phenomena: • place and role of IT in the national economy, • research on socio-economic phenomena occurring in the space of electronic administration, • research on the structure, impact and effectiveness of electronic marketing systems and social media.		
Prerequisites and co-requisites	1. Completed the second semester of second-cycle studies. 2. Have knowledge of methods and ways of building IT systems and statistical methods enabling data acquisition, processing and analysis. 3. Have knowledge of selected text composition tools, such as Microsoft Word, LibreOffice, LaTeX. 4. Have the ability to freely formulate thoughts in a descriptive form.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Results of the conducted research	60.0%	50.0%
	Selected chapters of the diploma thesis	60.0%	50.0%
Recommended reading	Basic literature	Dyhdalewicz, A. (2022). Ramy koncepcyjne prac magisterskich. Wybrane problemy metodyczne. Akademia Zarządzania, 6(1), 183-205. Pułko A. (2000). Prace magisterskie i licencjackie, Wydawnictwa Prawnicze PWN, Warszawa. Wrycza, S. i Maślankowski, J. (eds.) (2019). Informatyka ekonomiczna: teoria i zastosowania. Wydawnictwo Naukowe PWN. Warszawa. Węglińska, M. (2013). Jak pisać pracę magisterską? Poradnik dla studentów. Wydawnictwo Impuls, Kraków.	
	Supplementary literature	Literature items from the area of business informatics, information technology, computer science and management corresponding to the topic of the master's thesis.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Conducting research in accordance with the assumptions defined in the first semester of the seminar. Discussion of the content of selected chapters describing the essence, scope and process of conducting own research.		
Work placement	Not applicable		

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