University of Gdańsk

Subject card

Subject name and code	Master Seminar 3, PG_00177473		
Field of study	Informatics and Econometrics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Master's studies	Subject group	Obligatory subject group in the field of study 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	English
Semester of study	4	ECTS credits	5.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Business Informatics -> Faculty of Management -> Rector		
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	35.0	35

E-learning hours included: 0.0

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	35	4.0	86.0	125

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 students to effectively defend the work they have prepared in front of the examination committee.

In the third semester, participants prepare the final text of their master's thesis based on a review of literature and research conducted in the first and second semesters of the seminar. An additional task for participants is to prepare to the process of present their work in front of the examination committee. The knowledge related to examination topics will be required and the ability to present it in a short form will be also mandatory. An equally important cognitive issue will also be the assimilation of the basic rules of public speaking along with the protocol and etiquette of final exams.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[IiEMU2_U04] Students can choose, develop, and analyze traditional or innovative models of complex economic and social phenomena to make informed decisions.	The student is able to adapt the methods and tools of economic informatics to the assumptions of the research process describing complex socio-technical phenomena or designing information systems.	[SU3] text preparation/written work
[IiEMU2_U10] The student is able to convey information transparently and effectively, adapting their communication to meet the needs of different audiences. They can clearly present their opinions and engage in debates using terminology from the fields of econometrics, informatics, or statistics, utilizing various media.	The student is ready to share her/ his own research achievements with the participants of the seminar group and appear in front of the examination committee.	[SU3] text preparation/written work
[IiEMU2_U07] Students can prepare detailed written papers, presentations, and oral speeches on econometrics, informatics, or statistics issues.	The student is able to prepare the final version of the diploma thesis based on the assumptions defined in the first semester of the seminar cycle and the research conducted in the second semester.	[SU3] text preparation/written work
[IiEMU2_U13] The student can formulate and verify hypotheses about simple research problems using advanced, structured knowledge and appropriately selected research methods in econometrics, informatics, or statistics.	The student is able to design and conduct a research process using available methods and tools of economic informatics in response to emerging needs and opportunities created by information technology.	[SU3] text preparation/written work
[IiEMU2_K01] The student is ready to acquire and deepen the knowledge needed to solve cognitive and practical problems, in particular in the field of econometrics, informatics or statistics, as well as to evaluate the knowledge and the received content critically and to consult experts in the event of difficulties with solving the problem on their own.	The student should be ready for a thorough analysis of the research process carried out during the seminar, the results of which should be reflected in the records of the diploma thesis.	[SK3] text preparation/written work
[IiEMU2_W05] The student possesses advanced knowledge and understanding of informatics, statistics, and econometrics techniques and tools used to acquire, process, or visualise data to aid in decision-making and verify research hypotheses.	The student should know the subject scope of the subdiscipline of economic informatics. The student should know the methods of scientific research describing or explaining socio-economic phenomena, where information technology plays an important role. The student should know the scientific methods of the project approach in business informatics.	[SW3] text preparation/written work [SW5] implementation of a problem task

Subject contents

1. Content, formal and editorial requirements for master's theses.
2. Sharing knowledge and drawing scientific, cognitive and personal inspiration from other seminar participants.
3. Recognizing limitations in implemented scientific activities and shaping the ability to develop remedial measures.
4. Creative participation in scientific discourse.
5. Public speaking in scientific discourse.

Topics proposed by supervisors::

dr hab. Jerzy Auksztol, prof. UG

1. Information systems development and maintenance
2. Legal aspects of business informatics.
3. Software engineering.
4. Software development project management.
5. E-administration research.
6. Language models in application.

dr hab. Bartłomiej Gawin, prof. UG

1. Business process management using dedicated IT tools (process design, simulation, implementation, analysis and optimization);
2. Design and implementation of IT systems;
3. Energy efficiency management using dedicated IT tools (building energy strategies for enterprises, telemetry and renewable energy source control systems, multi-source data analysis);
4. IT project management;
5. Data collection, processing, visualization and analysis.

Prerequisites and co-requisites

1. Completed the first 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
Master's thesis	51.0%	100.0%

Recommended reading

Basic literature

Baccarani, C., & Bonfanti, A. (2015). Effective public speaking: a conceptual framework in the corporate-communication field. Corporate Communications: An International Journal, 20(3), 375-390.

Bylkova, S., Chubova, E., & Kudryashov, I. (2021). Public speaking as a tool for developing students communication and speech skills. In E3S Web of Conferences, Vol. 273, 11030).

Dyhdalewicz, A. (2022). Ramy koncepcyjne prac magisterskich. Wybrane problemy metodyczne. Akademia Zarządzania, 6(1), 183-205.

Przechlewski, T. (2011). Praca magisterska i dyplomowa z programem LaTex: jak szybko tworzyć profesjonalnie wyglądające dokumenty. Wolters Kluwer Polska, Warszawa.

Pułło A. (2000). Prace magisterskie i licencjackie, Wydawnictwa Prawnicze PWN, Warszawa.

Węglińska, M. (2013). Jak pisać pracę magisterską? Poradnik dla studentów. Wydawnictwo Impuls, Kraków.

Wrycza, S. i Maślankowski, J. (eds.) (2019). Informatyka ekonomiczna: teoria i zastosowania. Wydawnictwo Naukowe PWN. Warszawa.

	Supplementary literature	Literature items from the field of business informatics, information technology, computer science, economy and management corresponding to the topic of the master's thesis.
	eResources addresses	
Example issues/ example questions/ tasks being completed	• Editorial rules for scientific papers. • Master's thesis exam protocol and etiquette. • Basic rules for public speaking. • Communication and knowledge sharing in the process of scientific development.	
Work placement	Not applicable	

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