

Subject card

Subject name and code	Information and Communication Technologies , PG_00200359						
Field of study	Logistics and Mobility						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study 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	1	Language of instruction			English		
Semester of study	1	ECTS credits			3.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Division of Electronic Economy -> Department of Maritime Transport and Seaborne Trade -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Olga Dębicka				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		0.0		45.0	75
Subject objectives	The aim of this subject is to improve students knowledge about IT. Data analysis with advanced tools						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[LML3_W06] knows to an advanced degree selected methods and tools, including statistical techniques, to describe and model logistics and mobility processes and systems	Student uses basic software to acquire and analyze data necessary for professional work. The student is prepared to acknowledge the need for consultations with the course instructor in the case of complex issues.	[SW5] implementation of a problem task
	[LML3_U02] is able to use its theoretical knowledge and acquire data to analyze specific logistics and mobility processes and systems, and to analyze these processes and systems using methods developed in economics, finance, management science, logistics and mobility	The student is able to use digital tools and platforms to collect, visualize, and manage data relevant to logistics and mobility systems. The student demonstrates the ability to apply spreadsheet software, databases, or specialized logistics ICT tools to perform quantitative and qualitative analysis.	[SU8] observation of student's independent or team work
	[LML3_K01] recognizes the importance of knowledge in the field of logistics and mobility in the process of identifying and solving economic problems, is ready to interact with other participants in the learning process, and consulting experts in case of difficulties in solving them on their own	Student will be able to use basic computer programs in data acquisition and data analysis, needed at work. Student uses basic methods and tools, including computer tools and techniques to acquire data, and marketing tools to diagnose economic processes and takes up correct business decisions basing on them. Student uses basic software to acquire and analyze data necessary for professional work. The student is prepared to acknowledge the need for consultations with the course instructor in the case of complex issues.	[SK2] presentation/project/paper/report [SK4] test/exam - oral or written [SK5] implementation of a problem task
	[LML3_K02] is aware of the level of his knowledge in the field of logistics and mobility, understands the need to deepen and update this knowledge throughout life	The student is aware of the scope and limitations of their knowledge in the field of logistics and mobility, particularly in relation to modern information and communication technologies; understands the necessity of continuous learning and updating their knowledge to keep up with technological advancements and industry practices.	[SK4] test/exam - oral or written [SK5] implementation of a problem task

Subject contents	<p>1. Effective use of the internet as a source of information</p> <ul style="list-style-type: none"> • use email and the internet to gather and communicate information • perform searches using a single criterion • refine searches using more advanced search techniques <p>2. Interrogate, manipulate and present data using a data handling system</p> <ul style="list-style-type: none"> • use database facilities to manipulate data to solve problems • how to define an appropriate database record structure • how to enter and amend data in a database • use of Statistica programme in data analysis <p>3. Create and edit the contents, appearance and layout of documents</p> <ul style="list-style-type: none"> • use of word processing facilities to prepare documents • enter and edit data from different sources • ensuring the accuracy of the text <p>4. Create, manipulate, test, interrogate and present data using a spreadsheet model</p> <ul style="list-style-type: none"> • use a spreadsheet to create and test a data model • perform searches using a single criterion and using multiple criteria, with different data types • adjust the display features in a spreadsheet • produce a graph or chart from the spreadsheet model • a spreadsheet for accountants: mapping tables <p>5. Create, control and output information from a presentation</p> <ul style="list-style-type: none"> • preparing a professional presentation use a master slide to place objects and set styles • create presentation slides, including text, images, charts, animations and transitions • create notes for the presenter and audience As part of supporting the learning process, consultations will be used to clarify more complex issues related to the class topics 											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="451 1072 794 1106">Subject passing criteria</th> <th data-bbox="794 1072 1142 1106">Passing threshold</th> <th data-bbox="1142 1072 1477 1106">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 1106 794 1140">Excel test</td> <td data-bbox="794 1106 1142 1140">51.0%</td> <td data-bbox="1142 1106 1477 1140">30.0%</td> </tr> <tr> <td data-bbox="451 1140 794 1196">Grade from exercises during classes</td> <td data-bbox="794 1140 1142 1196">51.0%</td> <td data-bbox="1142 1140 1477 1196">70.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Excel test	51.0%	30.0%	Grade from exercises during classes	51.0%	70.0%
Subject passing criteria	Passing threshold	Percentage of the final grade										
Excel test	51.0%	30.0%										
Grade from exercises during classes	51.0%	70.0%										
Recommended reading	<table border="1"> <tbody> <tr> <td data-bbox="451 1207 794 1408">Basic literature</td> <td colspan="2" data-bbox="794 1207 1477 1408"> J. Habraken, Microsoft Office Inside Out (Office 2021 and Microsoft 365) 1st edition, Microsoft Press 2021 Todd C. Helmus, Artificial Intelligence, Deepfakes, and Disinformation: A Primer (RAND Corporation, 2022) </td> </tr> <tr> <td data-bbox="451 1408 794 1666">Supplementary literature</td> <td colspan="2" data-bbox="794 1408 1477 1666"> Dębicka O., "Business value of electronic commerce", [w:] Development and functioning of enterprises in global and changing environment, pod red. J. Kujawy i O. Dębickiej, Gdańsk 2010 Dębicka O., The value of social media in marketing (w:) Contemporary Issues in Economy. After the crisis, red. A. P. Balcerzak, Polish Economic Society Branch, Toruń 2011 Dębicka O., IT solution in building an effective purchase organization - a Polish case" [w:] Regional Management. Theory, Practice and Development, Żylna 2012 Dębicka O., Adapting cloud solution in Management Information Systems" [w:] Management Trends in Theory and Practice, Żylna 2013. </td> </tr> <tr> <td data-bbox="451 1666 794 1688">eResources addresses</td> <td colspan="2" data-bbox="794 1666 1477 1688"></td> </tr> </tbody> </table>			Basic literature	J. Habraken, Microsoft Office Inside Out (Office 2021 and Microsoft 365) 1st edition, Microsoft Press 2021 Todd C. Helmus, Artificial Intelligence, Deepfakes, and Disinformation: A Primer (RAND Corporation, 2022)		Supplementary literature	Dębicka O., "Business value of electronic commerce", [w:] Development and functioning of enterprises in global and changing environment, pod red. J. Kujawy i O. Dębickiej, Gdańsk 2010 Dębicka O., The value of social media in marketing (w:) Contemporary Issues in Economy. After the crisis, red. A. P. Balcerzak, Polish Economic Society Branch, Toruń 2011 Dębicka O., IT solution in building an effective purchase organization - a Polish case" [w:] Regional Management. Theory, Practice and Development, Żylna 2012 Dębicka O., Adapting cloud solution in Management Information Systems" [w:] Management Trends in Theory and Practice, Żylna 2013.		eResources addresses		
Basic literature	J. Habraken, Microsoft Office Inside Out (Office 2021 and Microsoft 365) 1st edition, Microsoft Press 2021 Todd C. Helmus, Artificial Intelligence, Deepfakes, and Disinformation: A Primer (RAND Corporation, 2022)											
Supplementary literature	Dębicka O., "Business value of electronic commerce", [w:] Development and functioning of enterprises in global and changing environment, pod red. J. Kujawy i O. Dębickiej, Gdańsk 2010 Dębicka O., The value of social media in marketing (w:) Contemporary Issues in Economy. After the crisis, red. A. P. Balcerzak, Polish Economic Society Branch, Toruń 2011 Dębicka O., IT solution in building an effective purchase organization - a Polish case" [w:] Regional Management. Theory, Practice and Development, Żylna 2012 Dębicka O., Adapting cloud solution in Management Information Systems" [w:] Management Trends in Theory and Practice, Żylna 2013.											
eResources addresses												
Example issues/ example questions/ tasks being completed	<p>Creating charts, using VLOOKUP, FV, rules of presenting the data. More advanced functions of Excel. Useful software for working in groups. Exercises on doing research and organizing workflow in a group. Different software often used to present results of research. Clever ways to search and do research. Exploring artificial intelligence tools. Discussion of moral aspects and compliance with the rules regarding plagiarism of content online. Learning to write the correct, most effective prompts for use when working with AI tools.</p>											
Work placement	Not applicable											

Document generated electronically. Does not require a seal or signature.