

Subject card

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|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code | Information systems in transport, forwarding and logistics, PG_00204875 | | | | | | |
| Field of study | Economics | | | | | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | | | 2028/2029 | | |
| Education level | Bachelor'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 | 3 | Language of instruction | | | Polish | | |
| Semester of study | 6 | ECTS credits | | | 3.0 | | |
| Learning profile | academic | Assessment form | | | credit | | |
| Conducting unit | Department of Transport Policy and Economic Integration -> Faculty of Economics -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr Dorota Książkiewicz | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 30.0 | 0.0 | 15.0 | 0.0 | 45 |
| | 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 | 45 | | 0.0 | | 30.0 | 75 |
| Subject objectives | The objective of the course is to equip students with knowledge and skills related to the use of modern information systems supporting transport, freight forwarding, and logistics management. Students will learn about IT tools and technologies applied in the TSL industry and their use in optimizing operational processes and decision-making. | | | | | | |

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| | [EKONL3_U06] uses the knowledge acquired in economics, finance and management to solve economic and social dilemmas arising in the professional context | applies knowledge from economics, finance, management, and information systems to resolve economic and organizational dilemmas encountered in professional practice within the transport, freight forwarding, and logistics industry. | [SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report |
| | [EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions | correctly identifies, diagnoses, and resolves dilemmas and alternative solutions related to the use and management of information systems in the transport, freight forwarding, and logistics industry. | [SK2] presentation/project/paper/report |
| | [EKONL3_U03] is able to analyse the causes and course of specific economic and social processes and phenomena, and accurately analyse these phenomena using adequate methods and tools economic and social | is able to analyze the causes and course of specific processes and phenomena related to the functioning of information systems in the transport, freight forwarding, and logistics sector, and accurately evaluate these phenomena using appropriate economic, social, and IT methods and tools. | [SU2] presentation/project/paper/report |
| | [EKONL3_K04] is willing to think and act in an entrepreneurial manner; adapts to new situations and conditions, takes on the challenges of creative thinking, is resilient in the face of failure, is able to identify risks and assess the risks of failure | is prepared to think and act entrepreneurially in the field of IT systems supporting transport, freight forwarding, and logistics; adapts to evolving technologies and market conditions, embraces the challenges of creative problem-solving, demonstrates resilience to setbacks, and is capable of identifying threats related to system implementation and use, as well as assessing their associated risks. | [SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report |
| | [EKONL3_W04] knows the types of economic and social ties and the regularities governing them | understands the types of economic and social linkages occurring within the transport, freight forwarding, and logistics sector, as well as the rules and mechanisms governing them, including the impact of IT systems on these relationships. | [SW2] presentation/project/paper/report |
| | [EKONL3_W06] has an advanced knowledge of selected methods and tools, including statistical and econometric techniques, for describing economic agents and structures as well as social institutions and the processes taking place in them | is familiar with selected methods and tools, including statistical, econometric, and IT techniques, that enable the analysis and description of economic entities and logistics and transport processes supported by information systems. | [SW2] presentation/project/paper/report |
| | [EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences | is able to use theoretical knowledge and collect data to analyze processes and phenomena related to the functioning of information systems in the transport, freight forwarding, and logistics sector, as well as analyze them using methods developed in economics, finance, and management sciences. | [SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report |

| Subject contents | <p>1. Introduction to Information Systems in Transport, Shipping, and Logistics (TSL) 2. Classification and Types of Information Systems in Logistics 4. 3. Transport Management Systems (TMS) 5. Warehouse Management Systems (WMS) 6. ERP Systems in Logistics Enterprises 7. EDI and Electronic Data Interchange 8. GIS Systems and Their Role in Transport 9. Shipment Tracking and Vehicle Monitoring Systems 10. Digitization of the Supply Chain and Digital Logistics Platforms 11. Modern Technologies in TSL Artificial Intelligence, Big Data, Autonomous Vehicles, Drones, Warehouse Robotics Security and Reliability of Information Systems 12. Trends and the Future of IT in Logistics Students have the opportunity to receive additional academic support during consultation hours with the course instructor.</p> | | | | | | | | | | | |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|-------|-------|
| Prerequisites and co-requisites | Knowledge of transport, forwarding and logistics market | | | | | | | | | | | |
| Assessment methods and criteria | <table border="1"> <thead> <tr> <th data-bbox="453 656 794 689">Subject passing criteria</th> <th data-bbox="794 656 1139 689">Passing threshold</th> <th data-bbox="1139 656 1485 689">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 689 794 723">presentation</td> <td data-bbox="794 689 1139 723">51.0%</td> <td data-bbox="1139 689 1485 723">80.0%</td> </tr> <tr> <td data-bbox="453 723 794 757">discussion</td> <td data-bbox="794 723 1139 757">51.0%</td> <td data-bbox="1139 723 1485 757">20.0%</td> </tr> </tbody> </table> | | | Subject passing criteria | Passing threshold | Percentage of the final grade | presentation | 51.0% | 80.0% | discussion | 51.0% | 20.0% |
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| presentation | 51.0% | 80.0% | | | | | | | | | | |
| discussion | 51.0% | 20.0% | | | | | | | | | | |
| Recommended reading | <table border="1"> <tr> <td data-bbox="453 768 794 1099">Basic literature</td> <td colspan="2" data-bbox="794 768 1485 1099"> <p>D. Książkiewicz: Rozwój transportu, spedycji i logistyki w dobie cyfryzacji i globalnej gospodarki. Wydawnictwo UG, Gdańsk 2021</p> <p>Nowe rozwiązania techniczne, organizacyjne i informatyczne w transporcie i logistyce. Praca zbiorowa pod red. Józefa Stokłosy i Ewy Dębickiej, e-book, 2023.</p> </td> </tr> <tr> <td data-bbox="453 1099 794 1312">Supplementary literature</td> <td colspan="2" data-bbox="794 1099 1485 1312"> <p>Dembińska Izabela Frankowska Marzena Malinowska Magdalena Tundys Blanka: Smart logistics. Wydawnictwo edu-Libri, 2018</p> </td> </tr> <tr> <td data-bbox="453 1312 794 1339">eResources addresses</td> <td colspan="2" data-bbox="794 1312 1485 1339"></td> </tr> </table> | | | Basic literature | <p>D. Książkiewicz: Rozwój transportu, spedycji i logistyki w dobie cyfryzacji i globalnej gospodarki. Wydawnictwo UG, Gdańsk 2021</p> <p>Nowe rozwiązania techniczne, organizacyjne i informatyczne w transporcie i logistyce. Praca zbiorowa pod red. Józefa Stokłosy i Ewy Dębickiej, e-book, 2023.</p> | | Supplementary literature | <p>Dembińska Izabela Frankowska Marzena Malinowska Magdalena Tundys Blanka: Smart logistics. Wydawnictwo edu-Libri, 2018</p> | | eResources addresses | | |
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| Example issues/ example questions/ tasks being completed | <p>Compare the functionalities of TMS and WMS systems. Provide examples of their applications. What are the advantages and risks of using EDI in logistics? What is the significance of digital logistics platforms in the context of Logistics 4.0?</p> | | | | | | | | | | | |
| Work placement | Not applicable | | | | | | | | | | | |

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