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|--|---|---|--|--|---|------------------------|----------------------------------|--------------------------------|---------|-------------------------|---|
| Course title | | SAP ERP and Other IT Tools in Logistics and Mobility | | | | | | ECTS code | | 14.3.EE.SZ.3589 | |
| | | | | | | | | ECTS credits | | 2 | |
| Name of unit administrating study | | OTHER | | Field of study | | Economics | | Field of specialisation | | L&M; | |
| Teaching staff | | Agnieszka Szmelter-Jarosz, Ph.D. ; Dorota Książkiewicz, Ph.D. | | | | | | | | | |
| Number of hours | | | | | | | | | | | |
| Lectures | 0 | Classes | | Tutorials | 0 | Laboratory | 30 | Seminars | 0 | Language classes | 0 |
| Forma aktywności | | | | | | | Year&Type of studies* | | 2 SS2, | | |
| Hours with the participation of the academic teacher (including office hours, exams, others): | | | | | | Semester: | | 3, | | | |
| Hours without the participation of the academic teacher (student's self-study, homeworks): | | | | | | Type of course: | | obligatory | | | |
| Total number of hours: | | | | | 0 | | Language of instruction: | | English | | |
| Teaching form | | in-class learning | | | | | | | | | |
| Teaching methods | | Activating methods in training classes, Discussion, questioning, Work in computer laboratories, Case studies, Didactic games, | | | | | | | | | |
| Prerequisites (required courses and introductory requirements) | | | | | | | | | | | |
| Required courses | | Passing the courses Managerial Economics and Supply Chain Management | | | | | | | | | |
| Introductory requirements | | <p>Knowledge: Basic concepts and laws in the field of microeconomics. Basic knowledge of logistics processes and systems, supply chain management</p> <p>Skills: computer skills (Windows, MS Office), basics of the English language, knowledge of elements of logistic processes, the ability to organize relations between events and activities</p> | | | | | | | | | |
| Assessment method, forms and criteria | | | | | | | | | | | |
| Assessment method | | Course completion (graded) | | | | | | | | | |
| Assessment criteria | | <p>Final test: 51-60% - dst, 61-70% - dst +, 71-80% - db, 81-90% - db +, 91-100% - very good</p> <p>Possibility to receive additional points for activity</p> <p>The individual project will constitute 50% of the final grade</p> <p>The knowledge test will account for 50% of the final grade</p> <p>A positive mark should be obtained for both the individual project and the knowledge test</p> | | | | | | | | | |
| Course objectives | | | | | | | | | | | |
| <p>To acquaint students with contemporary concepts of resource management in an enterprise.</p> <p>To familiarize students with the classification of IT tools for resource planning in logistics.</p> <p>To familiarize students with the circulation of information and documentation in the enterprise.</p> <p>To prepare students to use advanced solutions in the field of IT systems in logistics, in particular with global ERP-class IT systems.</p> <p>To prepare students to use IT solutions for warehouse management.</p> <p>To familiarize students with work based on the case study method.</p> | | | | | | | | | | | |
| Learning outcomes | | | | | | | | | | | |
| Knowledge | | E2_W08 | | The student has an in depth knowledge of the processes taking place in enterprises and economic organisations | | | | | | | |
| | | E2_W08 | | The student understands the flow of information (and documentation) in logistics processes and systems, in particular in IT systems. | | | | | | | |
| Verification of learning outcomes - Knowledge | | | | | | | | | | | |

| Outcomes | written exam | oral exam | test | essay/paper /portfolio | tasks/ homeworks | individual presentation | group presentation | classroom activities | classroom discussion | individual project | group project |
|--|--------------|--|------|------------------------|------------------|-------------------------|--------------------|----------------------|----------------------|--------------------|---------------|
| E2_W08 | | | X | | | | | | | X | |
| Skills | E2_U06 | The student uses the acquired knowledge in practice, supplementing it with an independent critical analysis of the effectiveness and usefulness of IT solutions in logistics | | | | | | | | | |
| | E2_U06 | The student is able to navigate in ERP and WMS class transaction systems and carries out business transactions | | | | | | | | | |
| Verification of learning outcomes - Skills | | | | | | | | | | | |
| Outcomes | written exam | oral exam | test | essay/paper /portfolio | tasks/ homeworks | individual presentation | group presentation | classroom activities | classroom discussion | individual project | group project |
| E2_U06 | | | X | | | | | X | X | X | |
| Attitudes | E2_K04 | The student is ready to think and act in an entrepreneurial manner; makes decisions related to the implementation of logistics processes using IT tools | | | | | | | | | |
| | E2_K04 | The student is able to prioritize and plan activities related to resource management in relation to the customer's demand | | | | | | | | | |
| Verification of learning outcomes - Attitudes | | | | | | | | | | | |
| Outcomes | written exam | oral exam | test | essay/paper /portfolio | tasks/ homeworks | individual presentation | group presentation | classroom activities | classroom discussion | individual project | group project |
| E2_K04 | | | | | | | | X | X | X | |
| Course contents | | | | | | | | | | | |
| <ol style="list-style-type: none"> 1. Introduction to IT in logistics 2. Introduction to working using the ERP SAP S4/HANA system 3. Basic functionalities, database, transactions, navigation in the system 4. Case studies - simulations of real logistics processes in a production and trade company on the example of the SD module (sales and distribution): <ol style="list-style-type: none"> 4.1. Create a new customer record in the database 4.2. Entering an inquiry from the customer 4.3. Order registration from the customer 4.4. Launching the delivery process 4.5. Creation of a picking list and registration of shipment sending. 4.6. Issuing a sales invoice 4.7. Registration of payments from customers 4.8. Documentation flow review 5. TMS - transport management systems 6. WMS - warehouse management systems | | | | | | | | | | | |

7. Digital logistics platforms in logistics management

8. Digital technology development in logistics

Recommended reading lists

Basic literature:

SAP UA instructions

Technological Revolution. Directions in the development of the transport-forwarding-logistics sector, Publikacje i projekty - PITD,

Matusiewicz M., Logistics of the future - Physical Internet and its practicality, Transportation Journal, 2020, vol. 59, no 2

H. Nozari, M. Fallah, A. Szmelter-Jarosz, "A conceptual framework of green smart IoT-based supply chain management", International Journal of Research in Industrial Engineering, t. 10, nr 1, ss. 22-34, 2021.

Supplementary literature:

H. Nozari, M. Fallah, A. Szmelter-Jarosz, M. Krzemiński, "Analysis of security criteria for IoT-based supply chain: a case study of FMCG industries", Central European Management Journal, t. 29, nr 4, ss. 1-23, 2021.

H. Gleissner, J.C. Femerling (2013) IT in Logistics. In: Logistics. Springer Texts in Business and Economics. Springer, Cham. https://doi.org/10.1007/978-3-319-01769-3_9

D. Daniluk, B. Holtkamp (2015) Logistics Mall—A Cloud Platform for Logistics. In: ten Hompe M., Rehof J., Wolf O. (eds) Cloud Computing for Logistics. Lecture Notes in Logistics. Springer, Cham. https://doi.org/10.1007/978-3-319-13404-8_2

Contact

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* SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies
** MSG - International Economic Relations