University of Gdańsk

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | Resource Planning Tools, PG_00200053 | | |
| Field of study | Economics | | |
| 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<br>Optional subject group<br>Subject group related to scientific research in the field of study |
| Mode of study | part-time studies | Mode of delivery | at the university |
| Year of study | 2 | Language of instruction | Polish |
| Semester of study | 4 | ECTS credits | 2.0 |
| Learning profile | academic | Assessment form | credit |
| Conducting unit | Department of Logistics -> Faculty of Economics -> Rector | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Agnieszka Szmelter-Jarosz | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 8.0 | 0.0 | 5.0 | 0.0 | 13 |

E-learning hours included: 0.0

Additional information:

Text analysis with discussion

Exercises using activating methods.

Working in a computer lab.

Case studies.

**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 | 13 | 0.0 | 37.0 | 50 |

**Subject objectives**

To familiarize students with modern concepts of resource management in an enterprise.
To familiarize students with the classification of tools used for resource planning in logistics, in particular with ERP IT systems.
To familiarize students with the flow of information and documentation in the enterprise.
Preparing students to use advanced solutions in the field of IT systems in logistics, in particular global ERP IT systems.
Preparing students to use IT solutions for warehouse management (WMS systems).

| | | | |
|---|---|---|---|
| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [EKONMU2_K02] is aware of the level of their knowledge in the area of solving complex problems in economic,; understands the need to extend and update this knowledge throughout his/her life | The student understands the need to expand knowledge in the field of resource management in the enterprise, the use of statistical methods and the operation of related IT systems | [SK8] observation of student's independent or team work |
| | [EKONMU2_U08] can independently analyse economic and social phenomena and processes, and can perform a theoretically deepened assessment of such phenomena, using appropriately selected research method | The student makes economic decisions regarding resource management in the sphere of supply, production and distribution | [SU5] implementation of a problem task<br>[SU8] observation of student's independent or team work |
| | [EKONMU2_K04] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; can assess risks and threats and find ways of counteracting their effects | The student is able to define priorities and plan activities related to resource management in relation to the demand reported by the customer including preparing a project in teams of 2-3 people in the field of software operation, which is discussed and approved during consultations with the lecturer and then presented during classes | [SK2] presentation/project/paper/ report<br>[SK8] observation of student's independent or team work |
| | [EKONMU2_W08] has an in-depth knowledge of processes occurring in enterprises and economic organisations and with related areas, as well as of processes of change in public institutions; knows methods of research on the regularities governing these changes, taking into account the influence of external stakeholders on them | The student has knowledge about logistics processes and their participants including preparing a project in teams of 2-3 people in the field of software operation, which is discussed and approved during consultations with the lecturer and then presented during classes | [SW4] test/exam - oral or written<br>[SW2] presentation/project/paper/ report<br>[SW5] implementation of a problem task |
| | [EKONMU2_W07] has an in-depth knowledge of economic and financial principles governing the functioning and management of economic entities and organisations, as well as of systems of legal, organisational, professional, moral and ethical norms and rules organising public structures and institutions, both in the national and international spheres | The student understands the principles of integrated resource planning in logistics | [SW4] test/exam - oral or written<br>[SW5] implementation of a problem task |
| | [EKONMU2_U06] can practically apply various forms and range of acquired knowledge in economics, finance and management, supplementing it with an independent critical analysis of its efficiency and usefulness | The student uses knowledge of IT systems in logistics and is able to navigate ERP and WMS transaction systems. | [SU5] implementation of a problem task<br>[SU8] observation of student's independent or team work |
| Subject contents | 1. Introduction to the issue of using ERP IT tools in supply chains. Overview of major suppliers.<br>Discussion of the following areas of knowledge: information systems in logistics management; information flows in logistics processes<br>enterprises; history, essence and functions of ERP systems.<br>2. Introduction to ERP IT tools from ELSE:<br>history of ELSE and the development of its product portfolio; ELSE applications in managing information flow in the enterprise.<br>3. Structure and functionalities of ELSE.ERP and ELSE.WMS.<br>4. System navigation.<br>5. Work in ELSE.ERP and ELSE.WMS applications - case studies - simulation of real processes in the enterprise:<br>5.1. Forecasting needs and purchasing supplies.<br>5.2. High-bay warehouse management.<br>6. Introduction to working with the SAP ERP 6.0 application. History of the company's development, presentation of the product portfolio.<br>7. Basic functionalities of SAP ERP, application structure.<br>8. Case studies - simulations of real logistics processes in the enterprise on the example of the SD module (sales and distribution) | | |
| Prerequisites and co-requisites | | | |

| | | | |
|---|---|---|---|
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | project | 51.0% | 34.0% |
| | case studies | 51.0% | 33.0% |
| | test | 51.0% | 33.0% |
| Recommended reading | Basic literature | Chaberek M.: Makro- i mikroekonomiczne aspekty wsparcia logistycznego. Wyd. Uniwersytetu Gdańskiego, Gdańsk 2002.<br>ELSE- materiały i instrukcje do wykonywania ćwiczeń<br>SAP UA - materiały wprowadzające do case studies i instrukcje do wykonywania ćwiczeń<br>Majewski J.: Informatyka dla logistyki, Instytut Logistyki i Magazynowania, Poznań 2002<br>Nowoczesne technologie w logistyce, pod red. J. Długosza, PWE, Warszawa 2009<br>Szmelter A., Business intelligence jako element systemu zaopatrzenia informacyjnego, Roczniki Naukowe Wyższej Szkoły Bankowej w Toruniu. -<br>2013, nr 12 (12), s. 127-142<br>Szmelter A., Communication in global supply chains in automotive industry, Information Systems in Management 2015, Vol. 4, no 3, p. 205-218<br>Szmelter A., Informatyka w logistyce, w: Informatyka ekonomiczna, pod red. S. Wryczy i J. Maślankowskiego, Wyd. PWN, Warszawa 2019, s. 701-<br>730. | |
| | Supplementary literature | Lysons K.: M. Zakupy zaopatrzeniowe. PWE, Warszawa 2004.<br>Christopher M.: Logistyka i zarządzanie łańcuchem poda¿y. Wydaw. Prof. Szkoły Biznesu, Kraków 1998.<br>Zintegrowane Systemy Zarządzania ERP w gospodarce wirtualnej, pod red. H. Sroki, Wydaw. AE w Katowicach, Katowice 2009. | |
| | eResources addresses | | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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