



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Logistics

Course

Field of study

Logistics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

30

Laboratory classes

Tutorials

15

Projects/seminars

Other (e.g. online)

Number of credit points

6

Lecturers

Responsible for the course/lecturer:

Ph.D., D.Sc., Eng. Agnieszka Stachowiak,
University Professor

Responsible for the course/lecturer:

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Faculty of Engineering Management

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Prerequisites

Knowledge of basic economic conditions, the ability to analyze cause-effect relationships and the use of quantitative methods to solve simple decision problems.



Course objective

To provide students with basic knowledge in the field of logistics: logistics processes, logistics functions, methods and tools used in logistics as well as to develop skills in the selection and use of appropriate methods and tools to solve simple problems in the field of logistics. Creating the basis for developing logistic competence during studies.

Course-related learning outcomes

Knowledge

Student knows the basic concepts of logistics, including its definitions, processes and subsystems of the logistics system, knows the essence of the supply chain and the concept of supply chain management [P6S_WG_05]

Student knows the basic management issues specific to logistics and supply chain management, including issues of planning, organization and control of logistics processes [P6S_WG_08]

Student knows the basic relationships in the framework of logistics and its specific issues and supply chain management, including transactional relationships between transport costs, inventory level, customer service level [P6S_WK_04]

Student knows the basic phenomena and contemporary trends characteristic of logistics and its specific issues and supply chain management, understands the impact of globalization on logistics processes [P6S_WK_05]

Skills

Student is able to search based on the literature on the subject and other sources and in an orderly manner present information about the problem within the logistics and its specific issues and supply chain management [P6S_UW_01]

Student is able to apply appropriate techniques and methods to solve the problem within logistics, determines the level of inventory, costs related to inventory, level of customer service, plans transport tasks [P6S_UW_03]

Student is able to assess and make a critical economic analysis of selected problems, falling within the scope of logistics and its detailed issues and supply chain management, including issues related to determining the batch size, inventory level and transport tasks [P6S_UW_06]

Student is able to present, using properly selected means, a problem within logistics and its specific issues as well as supply chain management, discussing the results of solved logistics tasks [P6S_UK_01]

Student is able to identify changes in requirements, standards, regulations, technical progress and the reality of the labor market, understands that the requirements in relation to logistics change over time [P6S_UU_01]

Social competences

Student is aware of the importance of knowledge in the field of logistics and supply chain management



in solving cognitive and practical problems, understands and appreciates the importance of expert knowledge [P6S_KK_02]

Student is aware of initiating activities related to the formulation and transfer of information and cooperation in society in the field of logistics, understands and appreciates the importance of interdisciplinary cooperation [P6S_KO_02]

Student is aware of the responsible fulfillment, correct identification and resolution of dilemmas related to the logistics profession [P6S_KR_01]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge acquired as part of the lecture is verified by an exam conducted in an exam session. The exam has an oral form, students answer 3 questions drawn from the pool of 100 questions. The answers to the questions are assessed separately on a 2-5 scale, the final grade is the average of partial grades. The list of questions is available on the eKursy platform.

Skills acquired as part of the tutorials are verified on the basis of two final tests, consisting of 3 tasks with different points depending on their level of difficulty. Passing threshold: 60% of points.

Programme content

Lecture: Logistics - genesis and evolution. Logistics - definitions and functions (functional and material scope of logistics). Logistic system - characteristics and elements. Logistic subsystems: Supply logistics. Logistic subsystems: Production logistics. Logistic subsystems: Distribution logistics. Order processing: the essence and parameters of the process. Logistic customer service: the essence and parameters of the process. Decoupling point. Transport: the essence and parameters of the process. Warehousing: the essence and parameters of the process. Inventory. Logistic management: solutions currently used in logistics, including IT tools. Logistics strategies, including strategies for the integration of material flows, supply chains and global logistics.

Exercises: Demand forecasting. The level of customer service in probabilistic and quantitative terms. Material requirements planning. Ordering system based on the information level; safety stock. Economical order quantity with seasonality. Transport issues.

Teaching methods

Lecture: multimedia presentation

Tutorial: a multimedia presentation, presentation illustrated with examples given on a blackboard and performing tasks given by the teacher - practical exercises.

Bibliography

Basic

1. Kisperska-Moroń D., Krzyżaniak S. (red), Logistyka, Wydawnictwo Biblioteka Logistyka, Poznań, 2009.



2. Bozarth C., Handfield R., Wprowadzenie do zarządzania operacjami i łańcuchem dostaw: kompletny podręcznik logistyki i zarządzania dostawami, Wydawnictwo Helion, Gliwice 2009.
3. Krzyżaniak S., Podstawy zarządzania zapasami w przykładach, Wydanie 4, Wydawnictwo Instytutu Logistyki i Magazynowania, Poznań, 2008.
4. Skowronek C., Sarjusz-Wolski Z., Logistyka w przedsiębiorstwie, PWE, Warszawa, 2012.

Additional

1. Szymonik A., Nowak I., Współczesna logistyka, Wydawnictwo Difin, Warszawa, 2017.
2. Krzyżaniak S., Cyplik P., Zapasy i magazynowanie, Tom 1 - Zapasy, Wydanie 2, Wydawnictwo Instytutu Logistyki i Magazynowania, Poznań, 2008.
3. Niziński S., Ligier K., Żurek J., Logistyka dla inżynierów, Wydawnictwo Komunikacji i Łączności, Warszawa, 2012.
4. Hadaś Ł., Stachowiak A., Cyplik P., Production-logistic system in the aspect of strategies for production planning and control and for logistic customer service [w:] Logforum 10 (3), 2014.

Breakdown of average student's workload

	Hours	ECTS
Total workload	150	6,0
Classes requiring direct contact with the teacher	50	2,0
Student's own work (literature studies, preparation for tutorials, preparation for tests/exam) ¹	100	4,0

¹ delete or add other activities as appropriate