



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Informatic systems in logistics

Course

Field of study

Logistics

Area of study (specialization)

Corporate Logistics

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

14

Tutorials

Laboratory classes

14

Projects/seminars

Other (e.g. online)

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

dr inż. Katarzyna Ragin-Skorecka

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Wydział Inżynierii Zarządzania

ul. Jacka Rychlewskiego 2

60-965 Poznań

Responsible for the course/lecturer:

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e-mail: jacek.zak@put.poznan.pl

Wydział Inżynierii Zarządzania

ul. Piotrowo 3

60-965 Poznań

Prerequisites

Has basic knowledge in computer science, logistics and management sciences



Course objective

Students will learn about the main issues related to information systems used in logistics

Course-related learning outcomes

Knowledge

1. Knows extended concepts for logistics and supply chain management as well as dependencies related to IT systems used in logistics [P7S_WG_01, P7S_WG_05]
2. Knows detailed methods, tools and techniques characteristic in the context of information systems in logistics [P7S_WK_01]
3. Knows phenomena and contemporary trends and best practices in the context of information systems characteristic of logistics and its specific issues and supply chain management [P7S_WK_03, P7S_WK_04]

Skills

1. Is able to gather based on literature and other sources (in Polish and English) and present information on information systems in logistics in an orderly manner [P7S_UW_01]
2. Is able to communicate using properly selected means in a professional environment and in other environments using information systems as part of logistics and its specific issues, and supply chain management [P7S_UW_03]
3. Is able to apply the right experimental and measurement, information and communication techniques to solve the problem in the context of the IT system, including computer simulation in logistics and its specific issues, and supply chain management [P7S_UW_04]
4. Is able to assess the usefulness and possibility of using new achievements in the field of IT systems in logistics and functionally related areas [P7S_UW_06]
5. Is able to design, using properly selected means, an experiment, analysis process or scientific research solving a problem in the area of IT systems within logistics and its specific issues, and supply chain management [P7S_UK_01]
6. Is able to formulate and solve tasks related to IT systems through interdisciplinary integration of knowledge from the fields and disciplines used to design logistics systems [P7S_UO_01]
7. Is able to identify for IT systems in logistics changes in requirements, standards, regulations, technical progress and the reality of the labor market, and based on them determine the needs to supplement own and other knowledge [P7S_UU_01]

Social competences

1. Is aware of the responsibility for own work and readiness to comply with the principles of teamwork and taking responsibility for jointly implemented tasks with particular emphasis on the use of IT systems in logistics [P7S_KR_01]



Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lectures: problem tasks to be performed after the lecture, final test

Laboratories: current work in class, database created

Programme content

As part of the course, an overview of issues related to the use of IT systems in logistics will be presented.

The scope of classes includes:

1. Integrated IT systems in an enterprise
2. Database, model database, user interface in the IT system; systems supporting electronic data interchange
3. Product coding and identification systems, warehouse management systems - WMS
4. Information systems supporting supply chain management - SCM and customer relationship management systems - CRM
5. IT systems supporting production management - CIM and decision support systems - SWD
6. Selection and assessment of information systems, practical aspects related to the implementation of information systems
7. Selected mobile IT systems in logistics

Teaching methods

Lecture - informative lecture, seminar, case study

Laboratories - laboratory method, project method, brainstorming, demonstration method

Bibliography

Basic

1. Milewski R., Stankiewicz G.: Systemy informatyczne w logistyce. Wyd. WSOWL, Wrocław 2015 (Skrypt i materiały do ćwiczeń).
2. Bojar W., Rostek K., Knopik L.: Systemy wspomaganie decyzji. PWE, Warszawa 2014.
3. Szymonik A.: Technologie Informatyczne w Logistyce, Placet, Łódź 2010.
4. Majewski J.: Informatyka dla logistyki, Biblioteka Logistyka, Poznań 2006.
5. Kanicki T.: Systemy informatyczne w logistyce (Computer systems in logistics), Economy and Management – No. 4, 2011, ss. 86 – 97.



6. Żak J., Hadas Y., Rossi R. (Eds.): Advanced Concepts, Methodologies and Technologies for Transportation and Logistics. Springer, Heidelberg 2018.

Additional

1. Jain L., Peng Lim C.(Eds.): Handbook on Decision Making. Springer Verlag, Berlin – Heidelberg, 2010. (Wybrane rozdziały, np. Mora M. (et al): Intelligent Decision Support Systems Methodology ss. 29-54; Żak J.: Decision Support Systems in Transportation), ss. 249 – 294.

2. Szymonik A.: Informatyka dla potrzeb logistyka(i), Wyd. PWN, Warszawa 2015

Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,0
Classes requiring direct contact with the teacher	45	1,5
Student's own work (literature studies, preparation for laboratory classes, preparation for passing, completing problem tasks, creating a database) ¹	80	3,5

¹ delete or add other activities as appropriate