



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Logistics II

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### Course

Field of study

Management and Production Engineering

Area of study (specialization)

Production enterprise logistics

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

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### Number of hours

Lecture

14

Tutorials

Laboratory classes

Projects/seminars

6

Other (e.g. online)

### Number of credit points

3

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### Lecturers

Responsible for the course/lecturer:

prof. Stanisław Legutko

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Faculty of Mechanical Engineering

Piotrowo 3 60-965 Poznań

Responsible for the course/lecturer:



### **Prerequisites**

Knowledge: basic information in the field of logistics, organization of production processes and management of a production company

Skills: logical thinking, using various sources of information (library, Internet), production companies and processing of acquired messages, using programs for editing text and graphic documents

Social competences: understanding the need to learn, acquire new knowledge, organize the information obtained, verbalize own conclusions (self-presentation)

### **Course objective**

Getting to know advanced issues in logistics and the use of information technology in logistics

### **Course-related learning outcomes**

#### Knowledge

The student should characterize the basic concepts of logistics

The student should be able to define the concept of the logistics system of a production company and its subsystems

The student should explain the premises, assumptions and definitions of IT support in logistics

The student should be able to formulate the goals of MRP / ERP application and present the characteristics of MRPII and ERP

The student should characterize the functioning of the enterprise using the Integrated Information System

The student should characterize new trends in the identification of goods: RFID, EPC

The student should characterize the IT aspects of tracking logistic flows

#### Skills

The student is able to distinguish logistic subsystems in a production company

The student is able to define logistic processes in a production company

The student is able to work in the logistic block of the Integrated IT System of the enterprise

The student is able to analyze the functioning of logistic processes

The student is able to provide a concept for the improvement of logistics processes in a production company using appropriate computer applications

#### Social competences

Can cooperate in a group

The student is aware of the role of logistics and its IT support in a production company



Will act in accordance with the principles of ethics

Can express and justify his judgment

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: Exam on the basis of a written test consisting of 4 questions graded on a scale from 0 to 1.

Passing if a minimum of 2.4 points is obtained.

Designing: Credit based on a prepared project

### Programme content

Lecture:

Introductory issues: logistics definitions, supply chain, logistics processes, logistics system, development phases of logistics, the 7W principle, areas of applied logistics, logistics of a production company, logistics system of a production company and its subsystems. Premises, assumptions and definitions for IT support in logistics. Categories of logistics management support systems. Purposes of MRP / ERP application. Characteristics of MRPII and ERP. Process approach in the enterprise. The functioning of an enterprise using the Integrated IT System. Implementation of IT systems for logistics. Global data exchange in logistics. New trends in the field of identification of goods: RFID, EPC. IT aspects of tracking logistic flows. The sense of investing in ERP. Functioning of a global ERP system and global supply network.

Design:

Case studies on the identification and introduction of changes in the functioning of logistics processes in selected production companies, in particular the implementation of logistics support IT systems - presentation by the teacher and study by students.

### Teaching methods

Multimedia presentations with commentary, panel discussion, ongoing consultations on the progress of project implementation

### Bibliography

Basic

[1] Jerzy Majewski, Informatyka dla logistyki, Wydawca: Instytut Logistyki i Magazynowania, wyd. III, Poznań 2008.

Additional

[2] H. Ch. Pfohl, Systemy logistyczne, Podstawy organizacji i zarządzania, Wyd, ILiM, Poznań 2001.

[3] C. Skowronek, Z. Sarjusz – Wolski, Logistyka w przedsiębiorstwie, PWE, Warszawa 1999.

[4] Z. Sarjusz – Wolski, C. Skowronek, Logistyka – poradnik praktyczny, CIM, Warszawa 2000.



[5] J. Majewski, Systemowe zarządzanie magazynem, wyd. 2, Warszawska Grupa Wydawnicza, Warszawa 2015

### Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	20	
Student's own work (literature studies, data collection and project development, preparation for the exam <sup>1</sup> )	40	

<sup>1</sup> delete or add other activities as appropriate