



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Supply and production logistics

Course

Field of study

Year/Semester

Management and Production Engineering

1/2

Area of study (specialization)

Profile of study

Production Systems

general academic

Level of study

Course offered in

Second-cycle studies

polish

Form of study

Requirements

full-time

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

15

Tutorials

Projects/seminars

15

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

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Prerequisites

Basic information on the structure of enterprises, organization of production processes and management of a production company, the ability to think logically, use information obtained from literature and the Internet and from production companies, understanding the need to learn and acquire new knowledge.

Course objective

Getting to know the basic issues in the field of supply and production logistics.

Course-related learning outcomes

Knowledge

The student should characterize the genesis and essence of logistics, the concepts: logistics system,



logistics supply chain, logistic processes, enterprise logistics and enterprise logistics system, knows the essence of supply logistics, production logistics and distribution logistics, is able to characterize the essence of inventories and models of their management, is able to characterize the infrastructure logistics of the enterprise and the issue of packaging, is able to present the main issues related to logistics of re-development, logistics costs and IT aspects of logistics.

Skills

The student is able to identify the impact of logistics activities on the functioning of the enterprise, is able to assess the functioning of logistics in a selected enterprise, is able to develop a value stream map, is able to make logistic analyzes supporting decision-making regarding the enterprise.

Social competences

The student is able to work in a group, is aware of the role of logistics in the modern economy, enterprise and society, understands the need for lifelong learning; can inspire and organize the learning process of other people.

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. Project: Credit based on a completed project.

Programme content

Lectures:

Lecture: The origin and essence of logistics. Basic definitions. Logistic system and its subsystems. Logistic supply chain. Enterprise logistics. Supply logistics. Production logistics. Distribution logistics. Inventory in logistic processes and their management. The logistic model of the enterprise. Technical infrastructure of the company's logistics. Warehouse infrastructure. Transport infrastructure. Packaging in logistic processes. Logistics for recycling. Logistics process costs. Information processing infrastructure. Computerization of logistics management. Modern distribution methods. Value stream analysis.

Project:

A case study on the improvement of logistics processes in an enterprise: analysis of selected logistic processes, development of a value stream map, development of a reorganization concept for the analyzed logistics processes, development of a target state value stream map, construction of a virtual model of the production system and simulation of its work - presentation by the teacher and development by students.

Teaching methods

Lecture: multimedia presentation - leading, discussion



Project: each student presents a multimedia presentation of the progress of the project implementation, discussion

Bibliography

Basic

[1] Pfohl H. Ch., Systemy logistyczne. Podstawy organizacji i zarządzania, Wyd. Instytut Logistyki i Magazynowania, Poznań 2001

[2] Ficoń Krzysztof, Zarys mikrologistyki – Bel Studio – Warszawa 2004

[3] Michłowicz Edward, Podstawy logistyki przemysłowej – AGH – Uczelniane Wydawnictwa Naukowo-Dydaktyczne – Kraków 2002

Additional

[1] Skowronek C., Sarjusz-Wolski Z., Logistyka w przedsiębiorstwie, PWE, Warszawa 1999

[2] Sarjusz-Wolski Z., Skowronek C., Logistyka - poradnik praktyczny, CIM, Warszawa 2000

[3] Sarjusz-Wolski Zdzisław, Sterowanie zapasami w przedsiębiorstwie – PWE – Warszawa 2000

[4] Plant Simulation - instrukcja obsługi programu, Siemens, 2018

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	20	1,0

¹ delete or add other activities as appropriate