POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name		
Logistics Engineering		
Course		
Field of study		Year/Semester
Logistics		2/4
Area of study (specializatio	n)	Profile of study
		general academic
Level of study		Course offered in
First-cycle studies		Polish
Form of study		Requirements
part-time		compulsory
Number of hours		
Lecture	Laboratory classes	Other (e.g. online)
8		
Tutorials	Projects/seminars	
10		
Number of credit points		
2		
Lecturers		
Responsible for the course/lecturer:		sible for the course/lecturer:
Prof. Marek Fertsch, Ph.D.,	D.Sc., Eng.,	
Mail to: marek.fertsch@pu	t.poznan.pl	
Phone: 48 61 665 34 16		
Faculty of Engineering Man	agement	

ul. J. Rychlewskiego 2, 60-965 Poznań

Prerequisites

The student starting this subject should have a basic knowledge of logistics. He should also be able to obtain information from specified sources and be willing to cooperate as part of a team.

Course objective

The student acquires knowledge, skills and social competences related to the applications of logistics engineering

Course-related learning outcomes

Knowledge



POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

1. The student knows the basic concepts of logistics and its detailed issues and supply chain management related to the applications of logistics engineering. [P6S_WG_05]

2. The student knows basic issues in the life cycle of socio-technical systems (logistics systems) and the life cycle of industrial products [P6S_WG_06]

3. The student knows the basic management issues specific to logistics and supply chain management related to the applications of logistics engineering. [P6S_WG_08]

Skills

1. The student is able to use appropriate experimental and measurement techniques to solve a problem within the studied subject, including computer simulation in the field of logistics and its detailed issues, as well as supply chain management in the scope related to the applications of logistics engineering. [P6S_UW_03]

2. The student is able to prepare the means of work necessary to work in an industrial environment and knows the safety rules related to this work, including safety problems in logistics [P6S_UW_05]

3. The student is able to assess and critically analyze in economic terms a selected problem within the framework of logistics and its detailed issues and supply chain management in the scope related to the applications of logistics engineering. [P6S_UW_06]

4. The student is able to design, using appropriate methods and techniques, an object, system or process that meets the requirements of logistics engineering, its detailed issues and supply chain management. [P6S_UW_07]

5. The student is able to present a problem within the scope of logistics engineering using appropriately selected means. [P6S_UK_01]

Social competences

1. The student is aware of the importance of knowledge in the area of logistics and supply chain management in solving cognitive and practical problems [P6S_KK_02]

2. The student is aware of initiating activities related to the formulation and transfer of information and cooperation in society in the area of logistics engineering. [P6S_KO_02]

3. The student is aware of cooperation and team work to solve problems within the scope of logistics engineering. [P6S_KR_02]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: The knowledge gained during the lectures is verified by the college in the last classes and / or by tests (quizzes) in individual classes (through the Moodle platform). Passing threshold: 50% of points.

Tutorials: Skills acquired as part of assessing the progress of project tasks or the progress of project tasks or the progress of project tasks. Passing threshold: 50% of points.



POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

Programme content

Lecture: Logistic systems. Logistics processes. Logistic system and logistic process as an object of design. Logistics development phases. The place of logistics engineering in the development of logistics. Methodological foundations of logistics engineering. Planning in logistics. Information exchange in logistic systems.

Tutorial: Modeling of logistic processes, BPMN methodology, IDEF0 methodology, index evaluation of logistic process implementation.

Teaching methods

Lecture: informative (conventional) lecture, supported by a multimedia presentation, illustrated with examples and tasks.

Tutorial: the case study method - analysis of specific illustrative (illustrative) or problematic (problem identification) cases.

Bibliography

Basic

1. Blanchard B., Logistics engineering and management, Prentice – Hall, Inc., Englewood Cliffs, New Jersey 1992.

2. Fertsch M. (red)., Elementy inżynierii logistycznej, Wydawnictwo ILiM, Poznań, 2017.

Additional

1. Pfohl H.- Ch., Systemy logistyczne. Podstawy organizacji i zarządzania, Wydawnictwo ILiM, Poznań, 2002.

2. Don Taylor G., Introduction to logistics Engineering, CRC Press, Taylor& Francis Group, Boca Raton, London, New York, 2009.

3. Wener-Lewandowska K., Kosacka-Olejnik M., Logistics engineering application in the logistics maturity model for the service enterprises, Proceedings of the 14th International Conference of Logistics and SCM systems: Smart Supply Chain in an Uncertain World - the past, the present, and the future, Yu V.F., Kachitvichyanukul V., Tsai K.-M. (red.), Chinese Maritime Institute, 2019, s. 229-236.

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	18	1,0
Student's own work (literature studies, preparation for exam, project preparation) ¹	32	1,0

¹ delete or add other activities as appropriate