



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Safety of logistics processes [N1IBiJ1>BPL]

### Course

Field of study

Safety and Quality Engineering

Year/Semester

3/6

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

part-time

Requirements

compulsory

### Number of hours

Lecture

9

Laboratory classes

0

Other

0

Tutorials

9

Projects/seminars

0

### Number of credit points

2,00

### Coordinators

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### Lecturers

### Prerequisites

The student knows and understands the basic concepts of business activities, especially entrepreneurship and the functioning of enterprises (at the secondary school level). The student is able to interpret the phenomena occurring in the business and work environment and their impact on the functioning of the organization. Uses the known methods of researching phenomena and relations, and applies logical thinking to associate and evaluate them.

### Course objective

Consolidating knowledge and acquiring skills in the field of ensuring safety in the area of logistics processes. Acquisition of competences necessary to support the proactive assurance of the safety of logistic activities in the organization.

### Course-related learning outcomes

Knowledge:

1. The student has advanced knowledge of the life cycle of products, devices, objects, systems and technical systems in the context of logistics processes [K1\_W06].
2. The student has advanced knowledge of issues related to process and product optimization [K1\_W07].
3. The student knows issues in the field of management and organization as well as marketing and logistics in the context of security engineering [K1\_W08].

#### Skills:

1. The student is able to use analytical, simulation and experimental methods to formulate and solve engineering tasks, also using information and communication methods and tools [K1\_U04].
2. The student is able to plan, organize and carry out individual and team work and conduct experiments, including measurements and computer simulations, interpret the obtained results and draw conclusions [K1\_U11].
3. The student is able to identify changes in requirements, standards, regulations, technical progress and labor market reality in the context of logistics processes, and on their basis determine the need to supplement knowledge [K1\_U12].

#### Social competences:

1. The student is able to notice cause-and-effect relationships in the implementation of set goals and use ranks in relation to the importance of alternative or competing tasks [K1\_K01].
2. The student is able to plan and manage logistics projects [K1\_K04].
3. The student is aware of the responsibility for his or her own work and is ready to obey the principles of teamwork and be responsible for jointly performed tasks [K1\_K07].

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

#### Formative assessment:

- lecture: short written form carried out during the lecture 7-8. The course ends with a written test covering the knowledge of the issues presented in the lecture,
  - classes: evaluation of the exercises performed and tasks to be performed independently.
- Passing on the first and second attempt min. 50% of all points.

### Programme content

The program includes presentation of the safety of logistics processes in the organization.

### Course topics

Lectures: The concept of logistics and logistic system, its elements, functions and purpose of existence; process and system approach, logistics processes and their safety, warehousing as an example of logistics processes.

Classes: development of safe warehouse operation instructions, work planning and safeting the selected logistics process, use of Pareto analysis for safety purposes, supply chain safety planning - selected elements

### Teaching methods

Lecture: informative and conversational lecture based on a multimedia presentation.

Classes: subject exercises in conjunction with the case study analysis.

### Bibliography

#### Basic:

1. Krzyżaniak S., Kisperska-Moroń D., Logistyka, wyd. Instytut Logistyki i Magazynowania, Poznań 20
2. Stabryła A., [red.], Metodologia projektowania systemów organizacyjnych przedsiębiorstwa, Wyd. C.H.Beck, Warszawa 2015.
3. Szymonik A., Bielecki M., Bezpieczeństwo systemu logistycznego w nowoczesnym zarządzaniu, Wyd. Difin, Warszawa 2015.

#### Additional:

1. Stasiuk-Piekarska A.K., Hadaś Ł., Wyrwicka M.K., An analysis of correlations between disruption categories in a highly customized manufacturing system [w:] 24th International Conference on Production Research (ICPR 2017) ISBN: 978-1-60595-507-0, DOI: 10.12783/dtetr/icpr2017/17599.
2. Stasiuk-Piekarska A.K. , Wyrwicka M.K., Organising- still an important function of production management, Research in Logistics & Production. Badania w dziedzinie logistyki i produkcji, Publishing House of Poznan University of Technology, Volume 5, Number 2, April 2015, Poznań 2015, (ISSN:2083-4942), pp.129-142.
4. Blaik P., Logistyka, Wyd. PWE, Warszawa 2001.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	18	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	32	1,50