



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Safety of logistics processes

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### Course

Field of study

Safety Engineering

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

3/5

Profile of study

general academic

Course offered in

English

Requirements

compulsory

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### Number of hours

Lecture

15

Tutorials

15

Laboratory classes

Projects/seminars

Other (e.g. online)

### Number of credit points

2

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### Lecturers

Responsible for the course/lecturer:

Ph.D., Eng. Anna Stasiuk-Piekarska

Mail to: [anna.stasiuk-piekarska@put.poznan.pl](mailto:anna.stasiuk-piekarska@put.poznan.pl)

Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań,

Responsible for the course/lecturer:

Ph.D., D.Sc., Eng. Marcin Butlewski, University Professor

Mail to: [marcin.butlewski@put.poznan.pl](mailto:marcin.butlewski@put.poznan.pl)

Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań,

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### 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 knows at an advanced level issues in the field of mathematics and statistics in the field of solving practical engineering problems. [K1\_W04 ]
2. The student has advanced knowledge of the life cycle of products, devices, facilities, systems and technical systems. [K1\_W06]
3. The student has advanced knowledge of quality engineering in relation to products and processes. [K1\_W07]
4. The student knows the issues of management and organization as well as marketing and logistics in the context of safety engineering.[ K1\_W08]
5. The student has an advanced knowledge of the concepts and principles of copyright protection, information safety and intellectual property protection in a market economy. [K1\_W12]
6. The student knows the principles of creating and developing forms of individual entrepreneurship and the problems arising from the activities of enterprises in the market environment. [K1\_W13 ]

#### Skills

1. The student is able to use analytical, simulation and experimental methods to formulate and solve engineering tasks, also with the use of information and communication methods and tools.[ K1\_U04 ]
2. The student is able to prepare the necessary resources to work in an industrial environment and knows the safety rules related to this work and can enforce their use in practice. [K1\_U05]
3. The student is able to plan, organize and implement individual and team work and carry out experiments, including measurements and computer simulations, interpret the obtained results and draw conclusions. [K1\_U11]
4. The student is able to identify changes in requirements, standards, regulations and technical progress and the reality of the labor market, and on their basis define the need for supplementing knowledge. [K1\_U12]



### Social competences

1. The student is able to see the cause and effect relationships in the implementation of the set goals and use the ranks in relation to the significance of alternative or competitive tasks. [K1\_K01]
2. The student is able to plan and manage business ventures. [K1\_K04 ]
3. The student is aware of the responsibility for their own work and readiness to submit to the rules of teamwork and responsibility 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

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, 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	60	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for tutorials, preparation for tests) <sup>1</sup>	30	1,0

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