



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Industrial facilities security

### Course

Field of study

Year/Semester

Safety engineering

3/6

Area of study (specialization)

Profile of study

general academic

Level of study

Course offered in

First-cycle studies

Polish

Form of study

Requirements

part-time

elective

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

10

Tutorials

Projects/seminars

10

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

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Ph.D., Eng., Krzysztof Kubiak

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Faculty of Engineering Management

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### Prerequisites

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

### Course objective

Providing students with basic knowledge in the field of safety of industrial facilities.

### Course-related learning outcomes

Knowledge

1. Knows the subject and role of safety in the context of the industrial facilities [P6S\_WG\_02, P6S\_WK\_01]



2. Knows the technical conditions to be met by buildings and places of work located in buildings [P6S\_WG\_05, P6S\_WK\_03]

3. Knows the risks arising from industrial facilities [P6S\_WG\_03]

4. Knows the instructions for the safe performance of industrial facilities [P6S\_WG\_05]

#### Skills

1. The student can solve simple problems within safety engineering [P6S\_UW\_05, P6S\_UU\_01]

2. The student is able to apply safety rules to work in industrial facilities [P6S\_UW\_05]

3. The student can develop a plan BIOZ [P6S\_UW\_05, P6S\_UK\_01]

#### Social competences

1. The student willingly and actively discusses topics related to safety of industrial facilities [P6S\_KR\_02]

2. The student independently and critically develops his/her knowledge and skills with reference to other academic disciplines [P6S\_KK\_02]

#### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Preliminary assessment:

a) in terms of lectures:

Asking questions referring to the content of previous lectures during the following lecture

b) in terms of the tutorials:

Current assessment of the students activity in class (questions of the lecturer), assessment of a part of the case.

Summary assessment:

Lectures: Case study. Passing threshold from 55 points.

Tutorials: Preparation of the case. Passing threshold from 55 points.

#### Programme content

Lectures: Technical conditions to be met by buildings and places of work located in buildings. Heating and ventilation work. Lighting of work, escape lighting, security lighting. Danger zone in the work rooms, workrooms dimensions. The freedom of movement in the workplace. Preparation of the premises and workplaces.

Tutorials: Students perform tasks related to the safety of industrial facilities (based on the subject of lectures).



## Teaching methods

1. Lecture: multimedia presentation, illustrated with examples on the board.
2. Tutorial: case study.

## Bibliography

### Basic

1. A. S. Markowski, Bezpieczeństwo procesów przemysłowych, Politechnika Łódzka, 2017
2. P. Sienkiewicz, Inżynieria systemów bezpieczeństwa, PWE, Warszawa, 2015

### Additional

1. K.K. Booss, BIOZ Bezpieczeństwo i ochrona zdrowia na budowie, Ośrodek Informacji Technika instalacyjna w budownictwie, Warszawa 2006

## Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests, project preparation) <sup>1</sup>	25	1,0

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