



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Safety of construction works

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

Polish

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

Other (e.g. online)

Tutorials

15

Projects/seminars

15

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

Ph.D., Eng. Krzysztof Kubiak

Responsible for the course/lecturer:

Mail to: krzysztof.kubiak@put.poznan.pl

Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań

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 construction works

Course-related learning outcomes

Knowledge



1. The student knows the issues of technical safety, safety systems, occupational health and safety as well as threats and their effects in depth. [K1_W02]
2. The student has advanced knowledge of the risks and their effects, risk assessment in the work environment as well as occupational accidents and diseases. [K1_W03]
3. The student has advanced knowledge of ergonomics, human ecology and environmental protection. [K1_W05]
4. The student knows a foreign language in the field of grammatical structures and general vocabulary as well as vocabulary appropriate for the field of Safety Engineering. [K1_W09]
5. The student knows the fundamental dilemmas of modern civilization, development trends and best practices in the field of safety engineering. [K1_W10]

Skills

1. The student is able to prepare the necessary resources for work in an industrial environment and knows the safety rules related to this work and can enforce their application in practice. [K1_U05]
2. The student is able to take part in a debate, to present a problem within the scope of safety engineering using appropriately selected means. [K1_U09]
3. 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 aware of the importance of knowledge in solving problems in the field of safety engineering and continuous improvement. [K1_K02]
2. 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:

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.

c) in terms of projects:



Preparation part of the project.

Summary assessment:

Lectures: case study

Tutorials: preparation of the case

Projects: preparation of the project

Programme content

Lectures: Technical conditions to be met by buildings and places of work located in buildings. Threats in the construction industry and methods of their identification. The safety performance of construction work, repairs and maintenance. BioZ plan. User safe execution of works.

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

Projects: Students perform project related to safety on the construction site.

Teaching methods

1. Lecture: multimedia presentation, illustrated with examples on the board.
2. Tutorial: case study
3. Project: Preparation of the project

Bibliography

Basic

1. B. Hoła, Bezpieczeństwo pracy w procesach budowlanych, Oficyna Wyd. Politechniki Wrocławskiej 2016
2. T. Laurowski, BHP na budowie, Wyd. KeBe, Krosno 2016

Additional

1. praca zbiorowa, Bezpieczeństwo pracy w budownictwie, Wyd. Unimedia Sp . z o.o., 2012
2. 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	100	4,0
Classes requiring direct contact with the teacher	45	2,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	55	2,0

¹ delete or add other activities as appropriate