



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Occupational Health and Safety (OHS) in civil engineering

### Course

Field of study

Civil Engineering

Area of study (specialization)

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Level of study

First-cycle studies

Form of study

part-time

Year/Semester

3/5

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

### Number of hours

Lecture

10

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

dr inż. Bożena Kuczma

Responsible for the course/lecturer:

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### Prerequisites

knowledge: student has the basic knowledge of the basics of construction,

skills: analysis of interdisciplinary problems, the student is aware of the need to constantly update and supplement construction knowledge and take responsibility in professional work, uses available sources of information

social competencies : independent thinking and working in a group

### Course objective

Acquainting the students with basic health and safety regulations in modern industrial companies, as



well as in non-professional life. Teaching some practical skills how to solve problems connected with development of working conditions.

### Course-related learning outcomes

#### Knowledge

Has an elementary knowledge of rules and provisions concerned with creating working conditions that do not endanger the life, health and environment of workers.-[K\_W06].

Has the basic knowledge that is necessary to understand the determinants of non-technical engineering activity in a household and an industry - [K\_W06].

#### Skills

Is able to apply the principles of health and safety at work - [K\_U16].

Can estimate hazards of building operation, implement suitable safety rules and prepare work standards as well as quality management procedures. - [K\_U16].

#### Social competences

Can realise that is necessary to improve professional and personal competence; are ready to critically evaluate the knowledge and received content.

Understand the need to transfer to the society the knowledge about building engineering, transfer the knowledge in clear and easily comprehensible manner.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

As a form of measuring/ assessing student work: colloquium in the form of open questions during the last class)

Grade scale determined % from:

90 very good (A)

85 good plus (B)

75 good (C)

65 sufficient plus (D)

55 satisfactory (E)

below 50 insufficient (F)

### Programme content



Classes 1- Genesis of problematic aspects in the area of health and safety and ergonomics.

Classes 2- Tasks and objectives of health and safety.

Classes 3- Legal foundations for activities in the realm of health and safety.

Classes 4 - Construction site

Classes 5- Safety and health protection plan (BIOZiŚ)

Classes 6- Specific separate OHS for all types of construction works:

- earthmoving works (digging)
- masonry and plastering works,
- reinforcement works, concrete works and reinforced concrete works,
- electric works on a construction site,
- scaffolding works,
- works at heights.

Classes 7- Practical examples of technical and organizational solutions which boost safety and ergonomic quality of machines as well as working conditions.

Classes 8- Colloquium in the form of open questions

### Teaching methods

Lecture with multimedia presentation

### Bibliography

Basic

1. Nauka o pracy - bezpieczeństwo, higiena, ergonomia. CIOP. [Http://nop.ciop.pl](http://nop.ciop.pl)
2. Obolewicz J., Przygotowanie planu BIOZ. Inżynier Budownictwa 11/2012. [Https://www.piib.org.pl](https://www.piib.org.pl)
3. Wieczorek Z., Budownictwo. Wymagania bezpieczeństwa pracy. PIP 2011. [Http://www.pip.gov.pl](http://www.pip.gov.pl)
4. Rączkowski B. BHP w praktyce. Wydanie XIII. Wyd. ODDK Gdańsk, 2011
5. Laurowski T. BHP na budowie. Wydanie II. wyd. "KaBe" s.c. Krosno, 2016

Additional

1. Świdorska G., Plan BIOZ. Bezpieczeństwo pracy na budowie. Polcen, Warszawa 2015.
2. Taczanowska T., Janowski P., Ergonomia w budownictwie. Wydawnictwo Uczelniane, Lublin 1998.



3. Wiatr T., Bezpieczeństwo w budownictwie. Planowanie obiekt i ich budowy na tle praktyk UE. Norma 2/2013. [Http://www.ikb.poznan.pl/tomasz.wiatr/BiOZwEU\\_TWiatr.pdf](http://www.ikb.poznan.pl/tomasz.wiatr/BiOZwEU_TWiatr.pdf)

#### Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,0
Classes requiring direct contact with the teacher	10	0,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	15	0,5

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