



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Industrial safety, occupational health and safety [S1MiBP1>BHP]

### Course

Field of study

Mechanical and Automotive Engineering

Year/Semester

1/1

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

### Number of hours

Lecture

4

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

### Number of credit points

0,00

### Coordinators

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### Lecturers

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### Prerequisites

Student recognizes the fundamental risks to health and life, which are associated with functioning at the

### Course objective

The student recognizes the basic hazards to health and life that are associated with his stay at the University. The student familiarize with the applicable regulations, management, regulations and rules of conduct in the event of hazards to occupational health and safety and fire safety at the Poznań University of Technology.

### Course-related learning outcomes

Knowledge:

Has basic knowledge in the field of chemistry, in the construction of the periodic table of elements and their properties, the theory of chemical bonds, organic and inorganic compounds, types of chemical reactions, chemical analysis: in the scope enabling understanding of lectures on metal and non-metal materials, protection sciences environment, fuels and lubricants, building materials and soil, biomechanics and biological materials processed by agricultural and food machinery.

Has elementary knowledge of the impact of technology changes on the organization of social life as well

as the health and psyche of individuals in human-machine contact.  
Has elementary knowledge of law, in particular security, copyright and security law industrial property and its influence on the development of technology.

#### Skills:

Can organize and substantively manage the process of designing and operating a simple machine from a group of machines from the group covered by the selected diploma path.  
Can interact with other people as part of teamwork (also of an interdisciplinary nature).  
Has the ability to self-educate with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books.

#### Social competences:

Is ready to recognize the importance of knowledge in solving cognitive and practical problems and to consult experts in case of difficulties in solving the problem on his own.  
Is ready to fulfill social obligations and co-organize activities for the benefit of the social environment.  
Is ready to initiate actions for the public interest.  
Is ready to fulfill professional roles responsibly, including:  
- observing the rules of professional ethics and requiring this from others, - caring for the achievements and traditions of the profession.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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Formative assessment:

- lecture classes: based on answers to current questions about issues discussed during the lecture.

Summative rating:

- lecture classes: written test in the form of a test in which at least one answer is correct (the answer is scored as 0 or 1); the student receives credit after obtaining at least 80% of points possible to obtain.

### Programme content

Lecture: labor law regulations on occupational safety and health; hazards of dangerous, harmful and noxious factors; hazardous incidents and accidents at work, accidents involving a student; characteristics of methods of protection against hazards; accident and emergency management; fire protection and first medical aid.

### Course topics

Selected legal regulations in the field of labor law, concerning health and safety at work, including:  
a) the rights and obligations of students and the University in the field of occupational health and safety and liability for violation of health and safety rules and regulations,  
b) accidents and diseases,  
c) prevention in the field of student health protection.  
Impact of hazardous, harmful and nuisance factors on safety and health. Assessment of hazards occurring in learning and working processes as well as characteristics of hazards protection methods. Problems related to the organization of workstations, including ergonomics, including workstations with screen monitors and other office equipment.  
Proceedings in the event of accidents and emergency situations (e.g. fire, breakdowns), including rules on providing first aid for victims of accidents.

### Teaching methods

Multimedia presentation, theory illustrated with examples.

### Bibliography

Basic

1. Statut Politechniki Poznańskiej uchwalony przez Senat Akademicki Politechniki Poznańskiej [Statute of the Poznań University of Technology adopted by the Academic Senate of the Poznań University of Technology] (Uchwała Nr 175/2016-2020 z dnia 10 lipca 2019 roku) [Resolution No. 175 / 2016-2020 of

July 10, 2019].

2. Regulamin studiów stacjonarnych i niestacjonarnych pierwszego i drugiego stopnia, uchwalony przez Senat Akademicki Politechniki Poznańskiej [Regulations of full-time and part-time first and second cycle studies, adopted by the Academic Senate of the Poznań University of Technology] (Uchwała Nr 154/2016-2020 z dnia 24 kwietnia 2019 r.) [Resolution No. 154 / 2016-2020 of April 24, 2019].

3. Rozporządzenie Ministra Nauki i Szkolnictwa Wyższego z dnia 30 października 2018 r. w sprawie sposobu zapewnienia w uczelni bezpiecznych i higienicznych warunków pracy i kształcenia (Dz. U. 2018, poz. 2090) [Regulation of the Minister of Science and Higher Education of 30 October 2018 on how to ensure safe and hygienic working and education conditions at the university (Journal of Laws 2018, item 2090)]

Additional

1. Ustawa z dnia 20 lipca 2018 r., Prawo o szkolnictwie wyższym i nauce (tekst jedn.: Dz. U. 2021, poz. 478, ze zm.) [Act of 20 July 2018, Law on Higher Education and Science (consolidated text: Journal of Laws 2021, item 478, as amended)].

2. Górny A., Zastosowanie środków technicznych i działań organizacyjnych w poprawie warunków pracy, Studia Ekonomiczne Regionu Łódzkiego, 2017, nr 24, ss. 205-216.

3. Konarska M., Gedliczka A. (2001), Sprawdź, czy twoje stanowisko pracy z komputerem jest ergonomiczne, Centralny Instytut Ochrony Pracy, Warszawa, 2001.

4. Doskonalenie bezpieczeństwa pracy w świetle wymagań ISO 45001 / Sebastian Kubasiński (WIZ), Małgorzata Sławińska (WIZ) // W: Nauka i praktyka w bezpieczeństwie pracy, środowisku i zarządzaniu / red. Danuta Zwolińska - Katowice, Polska : Wyższa Szkoła Zarządzania Ochroną Pracy, 2019 - s. 131-142.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	4	0,00
Classes requiring direct contact with the teacher	4	0,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	0	0,00