



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

A Basic Course in Health and Safety [S2FT2>BHP]

### Course

Field of study

Technical Physics

Year/Semester

1/1

Area of study (specialization)

–

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

### Number of hours

Lecture

4

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

0

### Number of credit points

0,00

### Coordinators

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### Lecturers

### Prerequisites

The student is able to make responsible decisions and actions in an emergency. Note (\*). - participation of students in classes is obligatory, - second-cycle students who have completed first-cycle studies at the Poznań University of Technology no later than in the last two years do not have to participate in the training, provided that they showed the Diploma Supplement, which includes the Short Course in Occupational Safety.

### 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:

1. The student has an in-depth knowledge of the legal, ethical, social and psychological aspects taken into account in professional activities in the field of safety engineering, in particular, in the field of occupational safety and ergonomics [K2\_W10].

## Skills:

1. The student is able to identify changes in requirements, standards, regulations, innovations and technical progress and economic reality and use them appropriately in solving problems in the field of occupational safety, taking into account the principles of ergonomics [K2\_U06].

2. The student is able to identify and recognize threats in the work environment, assess their impact on the individual, the organization and its intersector, as well as indicate methods of conduct aimed at minimizing the effects of threats taking into account pro-ecological solutions in the area of occupational safety [K2\_U10].

## Social competences:

1. The student correctly identifies and resolves dilemmas related to the broadly understood safety in the area of work, understands the need to make the public aware of the need for the formation of safety in various areas of organizational functioning [K2\_K02].

2. The student is ready to initiate actions related to the improvement of work safety taking into account pro-ecological solutions [K2\_K03].

## Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

### 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

Ensuring safety while on the premises of the Poznan University of Technology. Knowing how to behave during an emergency condition.

## Course topics

Selected labor law regulations on occupational health and safety, including:

(a) the rights and obligations of students and the University in the field of occupational safety and health, as well as liability for violations of OSH regulations and rules,

b) accidents and diseases,

c) preventive measures to protect the health of students.

The impact of hazardous, harmful and arduous factors on safety and health. Assessment of hazards occurring in the processes of learning and work, and characteristics of methods of protection against hazards. Problems related to the organization of workstations, taking into account the principles of ergonomics, including workstations equipped with screen monitors and other office equipment. Dealing with accidents and emergencies (e.g., fire, accidents), including the principles of providing premedical first aid to accident victims.

## Teaching methods

Lecture: The subject is conducted in the form of a conventional informative lecture, supported by a multimedia presentation. During the lecture, problem and activation methods are used for the students with the use of didactic films and analysis of typical situations - case study. The lecture can be carried out using distance learning techniques in synchronous mode. Acceptable platforms: eMeeting, Zoom, Microsoft Teams.

## 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 3 July 10, 2019].

2. Regulamin studiów stacjonarnych i niestacjonarnych uchwalony przez Senat Akademicki Politechniki Poznańskiej [Regulations of full-time and part-time studies, adopted by the Academic Senate of the Poznań University of Technology] (Uchwała Nr 55/2024-2028 z dnia 30 kwietnia 2025 r.) [Resolution No. 55/2024-2028 of April 30, 2025].

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. 2023, poz. 742, ze zm.) [Act of 20 July 2018, Law on Higher Education and Science (consolidated text: Journal of Laws 2023, item 742, 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. Kubasiński S., Sławińska M., Doskonalenie bezpieczeństwa pracy w świetle wymagań ISO 45001, 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 |