



COURSE DESCRIPTION CARD - SYLLABUS

Course name

A Short Course in Occupational Safety [S1Inf1>BHP]

Course

Field of study

Computing

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

0

Tutorials

0

Projects/seminars

0

Number of credit points

0,00

Coordinators

dr inż. Adam Górny

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Lecturers

Prerequisites

The student is able to make responsible decisions and actions in an emergency. *) ATTENTION! - the participation of students in classes is mandatory.

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. ma pogłębioną wiedzę z matematyki przydatną do formułowania modeli matematycznych sterowanych procesów - [K1st_W1]
2. opisuje dynamikę obiektów sterowania (w dziedzinie zmiennej czasu, zmiennej operatorowej oraz w dziedzinie częstotliwościowej) - [K1st_W5]
3. zna podstawowe metody, techniki i narzędzia stosowane przy projektowaniu i realizacji systemów

sterowania - [K1st_W7]

Skills:

1. potrafi przeprowadzać symulacje działania układów sterowania, interpretować uzyskane wyniki i wyciągać wnioski - [K1st_U3]
2. potrafi dobrać regulator i jego nastawy oraz wyznaczyć wybrane wskaźniki jakości regulacji - [K1st_U4]
3. potrafi zaimplementować model symulacyjny układu sterowania - [K1st_U11]

Social competences:

1. rozumie potrzebę permanentnego kształcenia się i przekazywania w sposób zrozumiały informacji z najbliższym otoczeniem w działalności zawodowej - [K1st_K1]
2. uzyskana wiedza pozwoli mu na kreatywne działanie w zakresie automatyzacji prac uciążliwych dla człowieka - [K1st_K2]

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 staying at the Poznań University of Technology. The ability to behave in the event of a hazard.

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

The course is conducted in the form of a conventional informative lecture, supported by a multimedia presentation, supplemented with an analysis of typical situations.

Optionally, it is possible to present a movie 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 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 42/2020-2024 z dnia 31 maja 2021 r.) [Resolution No. 42 / 2020-2024 of May 31, 2021].
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.

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