COURSE DESCRIPTION CARD - SYLLABUS

Course name
A Short Course in Occupational Safety [S1AiR2>BHP]

Course

Field of study
Automatic Control and Robotics

Year/Semester
1/1

Area of study (specialization)
–

Profile of study
practical

Level of study
first-cycle

Course offered in
Polish

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
4

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.

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. A student has knowledge on the principles of liability for ensuring safety in area at Poznan University of Technology, including its scope of responsibilities and obligations [K1_W24]
2. A student has knowledge on the basic principles of occupational health and safety and ergonomics in area at Poznan University of Technology [K1_W24].

Skills:

1. A student is able to identify changes in requirements, standards, regulations, innovations and technical progress as well as economic reality and properly use them in solving problems in the area of occupational safety [K1_U1].
2. A student is able to notice non-technical aspects, including environmental, economic and legal, of his activities; [K1_U16] 3. The student is able to apply the principles of occupational health and safety; is able to plan and organize work - individually and in a team, in accordance with the principles of occupational health and safety [K1_U19, K1_U31];

Social competences:
1. A student correctly identifies and resolves dilemmas related to broadly understood safety in the area of work, understands the need to raise public awareness of the need to shape safety in various areas of the organization [K1_K1].
2. A student understands the non-technical aspects and effects of engineering activities, including its impact on the environment and the related responsibility for decisions made [K1_K2].
3. A student is aware of the responsibility for his or her own work and is ready to comply with the principles of teamwork and be responsible for jointly implemented activities related to the improvement of work safety. Is able to take appropriate action in emergencies. [K1_K3].

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

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

The course is conducted in the form of a conventional informative lecture, supported by a multimedia presentation, supplemented with an analysis of typical situations.
In the case of training conducted at the Doctoral School and training conducted as a part of postgraduate studies, remote / virtual form is allowed.

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