POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name					
BHP - Workplace Health and Safety	(WHS)				
			Course		
Field of study		Year/Semester			
Chemical and Process Engineering		1/1			
Area of study (specialization)		Profile of study			
-		general academic			
Level of study		Course offered in			
First-cycle studies		Polish			
Form of study		Requirements			
full-time		compulsory			
			Number		
of hours			\ \		
Lecture	Laboratory classes)		
4	0	0			
Tutorials	Projects/seminars	5			
0	0				
Number of credit points					
0			Lecturers		
			Lecturers		
Responsible for the course/lecturer:		Responsible for the course/lecturer:			
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Prerequisites

Student should know the theoretical basis of occupational safety and health. Student should be able to pursue self-directed learning. Student should understand the need for further self-learning of others (students).

Course objective

To acquaint students with the basic principles of work in a chemical laboratory, practical ability of conducting an experiment in a safe way and working in a lab and getting acquainted with basis of substance management and prevention of chemical risks.



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Course-related learning outcomes

Knowledge

1. Knows the basic rules of safe and hygienic work in the process of educating a chemist (rules of safe work in a chemical laboratory, working with chemical substances). [K_W18, K_W18]

2. Knows the basic principles of providing first aid and the rules of conduct in case of fire [K_W18]

3. Is aware of the dangers that may occur during practical classes in chemical laboratories, can correctly identify the dangers [K_W18]

Skills

- 1. Has the ability to assess threats, prevent them [K_U1, K_U11]
- 2. Has the ability to act and behave appropriately in the event of an emergency [K_U11, K_U12]
- 3. Has the skills necessary to work in the laboratory in terms of health and safety [K_U12]
- 4. Has the ability to use safety data sheets of hazardous substances [K_U12]
- 5. Correctly recognizes pictograms, which can assign the appropriate meaning [K_U12]
- 6. Can provide first aid [K_U12]

Social competences

1. Has awareness and understanding of social aspects of the practical application of the acquired knowledge and the related responsibility [K_K3]

2. Is aware of the impact and importance of complying with the principles of safe and hygienic work on their own and others' safety [K_K6]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

An assessment of the course: on the basis of attendance and completion of a test (10-15 questions), in a stationary form or on-line the e-kursy platform. Pass level is above 50%.

Programme content

The cycle of the OSH includes:

1. Basic principles of health and safety at work in laboratory

2. Related to exposure to chemical substances - identification and classification of hazards, familiarization with the construction and information contained in the Safety Data Sheets (in particular phrases of H and safety risk P),

3. Discussing the correct labeling of the packaging of a dangerous substance and dangerous preparation

4. Presentation of ways to reduce hazards, procedures for dealing with hazards in a student lab (spills, oral or respiratory intoxication, chemical burns, fire, etc.);



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5. Presentation of laboratory equipment with individual and collective protection measures

6. Discussion of proceedings in the event of an accident, breakdown or fire (first premedical aid, escape routes).

Teaching methods

lecture: multimedia presentation and discussion of examples

Bibliography

Basic

1. R. Kowal, Bezpieczeństwo i higiena pracy przy stosowaniu substancji i preparatów chemicznych, Ośrodek Szkolenia PIP, Wrocław 2006.

- 2. P. Kowalski, Laboratorium chemii organicznej, techniki pracy i przepisy bhp, WNT, Warszawa 2008.
- 3. M. Wasilewski, W. Dawydow, Bezpieczeństwo w pracowni chemicznej, WNT, Warszawa 2009.
- 4. G. Gałuszka, Pierwsza pomoc w nagłych wypadkach, Tarbonus, Kraków-Tarnobrzeg 2009.

5. Aktualne akty prawne obejmujące zagadnienia związane z bhp i czynnikami chemicznymi w miejscu pracy

Additional

Miesięczniki "Bezpieczeństwo pracy", "Atest"

Breakdown of average student's workload

	Hours	ECTS
Total workload	4	0,0
Classes requiring direct contact with the teacher	4	0,0
Student's own work (literature studies, preparation for test) ¹	0	0,0

¹ delete or add other activities as appropriate