

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

Hygiene of work

Course

Field of study

Safety Engineering

Area of study (specialization)

Integrated Management of Safety in Organization

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

Polish

Requirements

elective

0

Number of hours

Lecture Laboratory classes Other (e.g. online)

0

10

Tutorials Projects/seminars

10

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

Joanna Sadłowska-Wrzesińska, Ph.D., D.Sc.

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Faculty of Engineering Management Institute of Safety and Quality Engineering ul. J. Rychlewskiego 2, 60-965 Poznań Responsible for the course/lecturer:

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The student has basic knowledge of ergonomics, ecology and occupational safety. The student is able to interpret the relationships occurring in the human-technical object system, as well as organize work taking into account the reduction of physical and mental loads for the human body. The student understands the legitimacy of occupational hygiene in connection with safety engineering.

Course objective

To acquaint the student with theoretical and practical problems related to the impact of work on human psychophysical well-being, which in turn should enable the acquisition of skills to control the degree of nuisance / harmfulness of working conditions and strive to minimize risk factors in this regard.

Course-related learning outcomes

Knowledge

- The student knows the issues of ergonomics and occupational safety, including preventive measures in the field of occupational health (P7S_WG_03),
- The student knows the concepts related to human and the world of values and the role of man in ensuring reliability in the human-technical object system (P7S WK 04),

Skills

- The student is able to prepare the necessary resources to work in an industrial environment and knows the safety rules associated with this work and is able to enforce their use in practice, taking into account the requirements of occupational hygiene (P7S UW 05),
- The student is able to present, using properly selected means, current problems of occupational hygiene, embedding them in the theoretical assumptions of ergonomics and occupational safety (P7S_UK_01),
- The studentis able to plan and conduct research using various methods (including measurements and simulations), performing a prognostic function in relation to the protection of working health (P7S_UO_01),
- The studentis able to identify changes in requirements, standards, regulations, technical progress and reality of the labor market, and on their basis determine the need to supplement knowledge in the context of planning and implementing health plans at the workplace (P7S_UU_01),

Social competences

- The student is aware of the recognition of cause and effect relationships in the implementation of the set goals and organizational tasks, taking into account the importance of issues related to the protection of employees' health (P7S KK 01)
- The student is aware of the responsibility for own work and readiness to comply with the principles of teamwork and taking responsibility for jointly implemented tasks in the field of occupational hygiene and health protection at work (P7S_KR_02).

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:



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Forming assessment:

- knowledge is verified by short tests after the third and fifth didactic unit short test + problem tasks,
- social skills and competences are verified by issuing partial grades resulting from: teamwork; rewarding activity; independent problem solving.

Summative rating:

- knowledge is verified by an oral exam on basic concepts related to human psychophysical functioning and problems of modern occupational hygiene,
- classes average partial grades + grade from a plan prepared by students to improve working conditions in a selected enterprise.

Programme content

Basic concepts. Hygiene and occupational hygiene - scope of activities, methodology, goals. The relationship between occupational hygiene and occupational safety and ergonomics. Harmful and harmful factors. Human tolerance limits, hygienic assessment of working conditions. Legal regulations regarding the protection of occupational health. Standards related to determining acceptable changes in the work environment (regarding chemical substances and mixtures, carcinogens, harmful biological agents, microclimate). Psychophysiological aspects of work organization, with particular emphasis on shift work and overtime. Fatigue curve. Technical and organizational rules for shaping employee well-being conditions (sanitary and hygienic rooms, workplace environment). The organization of the work of women, the elderly, and adolescents. Work hygiene of the student. Growing problems of static loads and mental fatigue. Hygiene of leisure and free time. Nutrition hygiene. Occupational diseases and work-related illnesses. Preventive medicine, health-related activities in the work environment. Health security culture.

Teaching methods

Lecture:

- informative lecture, conversational lecture,

Tutorials

- displaying methods (films, presentations), seminar discussion, case study, brainstorming, workshop methods - demonstration.

Bibliography

Basic

- 1. Sadłowska-Wrzesińska J., Lewicki L. (2018), Podstawy bezpieczeństwa i zdrowia w pracy, Wydawnictwo WSL, Poznań.
- 2. Wejman M. (2012), Higiena pracy, Wydawnictwo Politechniki Poznańskiej, Poznań.
- 3. Sadłowska-Wrzesińska J., Lewicki L. (2014), Istotne aspekty BHP, Wydawnictwo WSL, Poznań.
- 4. Horst W.M. (2012), Wprowadzenie do diagnozowania sposobu wykonywania pracy. Wybrane zagadnienia fizjologii, biomechaniki i antropometrii, Wydawnictwo Politechniki Poznańskiej.



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Additional

- 1. Sadłowska-Wrzesińska J. (2018), Kultura bezpieczeństwa pracy. Rozwój w warunkach cywilizacyjnego przesilenia, Aspra, Warszawa.
- 2. Dokumenty prawne, normy techniczne.

Breakdown of average student's workload

	Hours	ECTS
Total workload	45	3,0
Classes requiring direct contact with the teacher	20	1,0
Student's own work (literature studies, preparation for	25	2,0
classes/tutorials, preparation for tests/exam) 1		

4

¹ delete or add other activities as appropriate