COURSE DESCRIPTION CARD - SYLLABUS

Course name
Occupational diseases

Course

Field of study
Safety Engineering
Area of study (specialization)
Security and Crisis Management
Level of study
Second-cycle studies
Form of study
full-time

Year/Semester
1/2
Profile of study
general academic
Course offered in
Polish
Requirements
elective

Number of hours

Lecture
15
Laboratory classes
0
Other (e.g. online)
0
Tutorials
15
Projects/seminars
0

Number of credit points

3

Lecturers

Responsible for the course/lecturer:
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Responsible for the course/lecturer:
Żaneta Nejman, Ph.D., Eng.

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Prerequisites

The student has basic knowledge of ergonomics and occupational safety, is able to interpret the

relationships in the human-technical object system, and organize work taking into account the reduction of physical and mental loads for the human body. In addition, the student is aware of the social role of a technical university graduate and understands the legitimacy of health protection at work.

Course objective

To acquaint the Student with theoretical and practical problems related to the impact of work on human health, which in turn should enable the acquisition of the ability to control the degree of harmfulness of working conditions and strive to minimize it in all situations related to work.

Course-related learning outcomes

Knowledge

- The student knows issues in the field of ergonomics and occupational safety, in connection with the issues of occupational health (P7S_WG_03),

- The student knows the issues of the costs of occupational diseases and work-related illnesses and understands the functioning of insurance systems (P7S_WG_04),

Skills

- The student is able to correctly select the sources and information derived from them, using them to analyze and evaluate data on the health of working populations, formulate conclusions based on these data and propose remedial actions in relation to the risk of occupational diseases (P7S_UW_01),

- Student is able to use research, analytical, simulation and experimental methods to formulate and solve organizational problems in the field of health security (P7S_UW_04),

- The student is able to make a critical analysis of the organization's functioning in the context of its security policy and assess - in conjunction with Security Engineering - the existing organizational and technical solutions, proposing corrective actions to improve the level of health safety (P7S_UW_06),

- Student is able to identify changes in requirements, standards, regulations, technical progress and the reality of the labor market, and based on them determine the needs to supplement own knowledge and others in the field of occupational diseases (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, including health security of employees (P7S_KK_01),

- The student is aware of the recognition of the importance of knowledge in solving problems in the field of safety engineering and continuous improvement in topics related to occupational diseases (P7S_KK_02),

- The student is able to initiate activities related to the formulation and transfer of information on the risk of occupational diseases and work-related diseases (P7S_KO_02),

- 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 focused on the prevention of occupational diseases (P7S_KR_02).

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Forming assessment:

- knowledge is verified by short tests after the third and fifth didactic unit - short test and 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 functioning in the work environment, including occupational health problems, methodology for diagnosing these problems and legal classification of occupational disease,
- tutorials - average partial grades + grade from the preventive action plan prepared by students in the workplace.

Programme content

Health - a historical outline, evolution of the concept, modern approaches (biomedical, holistic, A. Antonovsky's salutogenesis model, homeostasis vs. homeodynamics). Health determinants according to Marc Lalonde. Basics of the physiology of the human body. Selected issues of biomechanics and anthropometry. Occupational disease as a medical and legal concept. Impact of harmful and arduous factors in the work environment. Hazard analysis at the workplace. Occupational disease - the process of recognition and adjudication. Occupational diseases resulting from the effects of factors harmful to the work environment. Review, incidence distribution, change trends. Occupational diseases caused by the way the work is performed. Ergonomic risk factors. Work related illnesses. Pathologies of the working environment as a threat to mental health. Stress and its consequences, addictions in the workplace. Health prevention. Popularization of the concept of health promotion in the workplace. Shaping a health safety culture.

Teaching methods

Lecture:

- informative lecture, conversational lecture,

Tutorials:

- displaying methods (film, show), seminar discussion, case study, brainstorming, workshop method.

Bibliography

Basic

1. Sadłowska-Wrzesińska J., Lewicki L. (2018), Podstawy bezpieczeństwa i zdrowia w pracy, Wydawnictwo WSL, Poznań.

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

Additional

1. Sadłowska-Wrzesińska J. (2018), Kultura bezpieczeństwa pracy. Rozwój w warunkach cywilizacyjnego przesilenia, Aspra, Warszawa.
2. Gałusza M., Langer W. (2013), Wypadki i choroby zawodowe. Dokumentacja, postępowanie, orzecznictwo, Tarbonus.

Breakdown of average student's workload

	Hours	ECTS
Total workload	90	3,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests) [1]	60	2,0

[1] delete or add other activities as appropriate