



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Protection of intellectual property, safety and work ergonomics [N1TCh2>OWI,BiEP]

Course

Field of study

Chemical Technology

Year/Semester

4/8

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

part-time

Requirements

elective

Number of hours

Lecture

10

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

0

Number of credit points

1,00

Coordinators

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Lecturers

Prerequisites

Basic knowledge of secondary school. Ability to analyze problems interdisciplinary, practical application of theoretical knowledge in work and life conditions everyday.

Course objective

To familiarize students with the basic legal regulations in the field of copyright and law industrial property and invention procedures in force in the Republic of Poland and the EU. To familiarize students with basic issues related to ergonomics and occupational health and safety. Delivery patterns of solving problems related to shaping working conditions through, for example, diagnostics and reducing occupational risk and designing ergonomic solutions. Showing relationships between technology, human well-being, physiology, ecology, economics and sociology.

Course-related learning outcomes

none

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Multiple-choice written test after completing the OWI lecture series and the occupational health and safety and ergonomics series.

Passing threshold: over 50% of correct answers.

Monitoring attendance at lectures.

Programme content

Objectives and tasks of the OSH activity and the ergonomic engineering. Legal documents connected with the OSH activity and ergonomic standards.

Threats identification on workstations. The patent law, protection law and registration law.

Course topics

The concept of intellectual property. Basic regulations of copyright law. The concept of ownership industrial and the form of its legal protection. Plagiarism and piracy - legal consequences. Patent law, law protection and registration law. Types of creative works and forms of their protection: invention, utility model,

industrial design, trademark, geographical indications, topography of integrated circuits, application rationalizing. Proceedings before the Patent Office of the Republic of Poland. European patent.

The origins of the issue of ergonomics (ergonomic engineering) and the goals and tasks of occupational health and safety. Protection systems

work in Poland and other countries. Legal acts related to health and safety activities and ergonomic standards.

The human-technical object system as an illustration of a workplace. Identification of threats on workplaces. Technical and organizational methods of limiting excessive risk

professional. Assessment of physiological workload. Assessment of mental workload. Data

anthropometrics in the design of machines and work spaces. Instrumental measurements and evaluation material parameters of the working environment. Examples of technical and organizational solutions improving the safety and ergonomic quality of machines and working conditions.

Teaching methods

Lecture with multimedia presentation.

Bibliography

Podstawowa:

1. Tytyk E., Bezpieczeństwo i higiena pracy, ergonomia i ochrona własności intelektualnych, Wydawnictwo Politechniki Poznańskiej, Poznań, 2017.

3

2. Tytyk E., Butlewski M., Ergonomia w technice, Wydawnictwo Politechniki Poznańskiej, Poznań, 2011.

3. Horst W. (red.), Ergonomia z elementami bezpieczeństwa i ochrony zdrowia w pracy (4 tomy), Wydawnictwo Politechniki Poznańskiej, Poznań, 2011.

4. Koradecka D. (red.), Nauka o pracy - bezpieczeństwo, higiena, ergonomia. Pakiet edukacyjny dla uczelni wyższych, (8 tomów), Wydawnictwo Centralnego Instytutu Ochrony Pracy, Warszawa, 2000.

5. Michniewicz G., Ochrona własności intelektualnej, Wydawnictwo C.H. BECK, 2022.

6. Barta J., Markiewicz R., Prawo autorskie i prawa pokrewne, Wydawnictwo Zakamycze, 2004.

Uzupełniająca:

1. Górská E., Tytyk E., Ergonomia w projektowaniu stanowisk pracy. Podstawy teoretyczne, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 1998.

2. Górská E., Diagnoza ergonomiczna stanowisk pracy. Oficyna Wydawnicza Politechniki Warszawskiej, 1998.

3. Nowak E., Atlas antropometryczny populacji polskiej, Wydawnictwo Instytutu Wzornictwa Przemysłowego, Warszawa, 2000.

4. Własność przemysłowa w działalności gospodarczej. Przewodnik dla małych i średnich przedsiębiorstw (red. Marianna Zaręba), Wydawnictwo Urzęd Patentowy RP, Warszawa, 2003.

Breakdown of average student's workload

	Hours	ECTS
Total workload		
Classes requiring direct contact with the teacher		
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)		