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

Occupational Health and Safety

## Course

Field of study
Electrical Engineering
Area of study (specialization)

Level of study
First-cycle studies
Form of study
part-time

## Year/Semester

## 1/1

Profile of study
general academic
Course offered in
Polish
Requirements
compulsory

## Number of hours

| Lecture | Laboratory classes | Other (e.g. online) |
| :--- | :--- | :--- |
| 10 | Projects/seminars |  |
| Tutorials |  |  |

Number of credit points
1

## Lecturers

Responsible for the course/lecturer:
Responsible for the course/lecturer:
dr inż. Wiesław Grzybowski
email: wieslaw.grzybowski@put.poznan.pl
phone 616653377
Faculty of Engineering Management
ul. Strzelecka 11, 60-965 Poznań

## Prerequisites

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

Student can define and describe Basic concepts and rules In the field of work organization and functioning and organizing of the safety system element.

Student can plan and evaluate functioning of the safety system. Student can also interpret the results of observations.

Student is aware of the importance of providing safety. Student is aware of the need of estabilishing security systems of the companies.

## Course objective

To familiarize students with rules, ordinances and regulations about health and safety at work.
To acquaint students with the Basic issues of the methodology of human-oriented design as an operator and as an employee of machine service and other technical devices.

## Course-related learning outcomes

Knowledge

1. Student has structured and theoretically founded knowledge of the construction and operation of transformers and electrical machines, has knowledge about the exploitation of technical systems.
2. Student knows and understand typical engeneering technologies In terms of studying degree course, and is up to date about actual development trends.
3. Student has basic knowledge necessary to understand social, economical, legal and other nontechnical conditioning of engineering activity, knows basic rules of ergonomics, health and safety and hazards in energy industry.

## Skills

Student can make a fault-finding analysis and evaluation of te functioning of existing electrical systems and devices, using appropriate methods and tools.
2. Student uses health and safety rules.
3. Student can asses helpfulness of the basic methods and tools, which provide to solve simple, practical engineering tasks, typical for electrotechnics and can choose and use appropriate methods and tools.

Social competences

1. Student is aware of need to initiate activities for the public interest, understands the various aspects and effects of the electrical engineer's activity, including the impact on the environment, and related responsibility for decisions made.

## Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:
Forming rating: Grade based on participation in solving problem tasks (given on the next 4 lectures) and active participation in classes

Summary rating: written test

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## Programme content

The basics of a system approach to safety: Safety and safety management, safety culture as the context of the safety system. The basics of system design theory. Safety models of systems. Hazards in the work and learning environment. The mechanisms of damage caused by technical objects. Estimating the chances of occurrence probabilities. Social and economical aspects of providing technical safety.The main principles of saving people who are electrocuted.

Teaching methods
Lecture with multimedia presentation.
Bibliography

## Basic

1. Projektowanie ergonomiczne; Edwin Tytyk, Wyd. Naukowe PWN, Warszawa-Poznań, 2001.
2. Poradnik BHP. Tom I: Praktyka, prawo, narzędzia, Kołodziejczyk E. (red.), Wyd. Forum, sp. z o.o. , Warszawa, 2005

## Additional

1. Makroergonomia; Leszek Pacholski, Aleksandra Jasiak, Wyd. Politechniki Poznańskiej, Poznań, 2011.
2. Podstawy ergonomii i fizjologii pracy; Jerzy Olszewski, Wyd. Akademii Ekonomicznej, Poznań, 1997.
3. Niezawodność człowieka w interakcji z procesem przemysłowym; Małgorzata Sławińska, Wyd. Politechniki Poznańskiej, Poznań, 2012

Breakdown of average student's workload

|  | Hours | ECTS |
| :--- | :--- | :--- |
| Total workload | 30 | 1,0 |
| Classes requiring direct contact with the teacher | 12 | 0,5 |
| Student's own work (preparation of solutions to problem tasks, <br> preparation for the passing) |  |  |

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[^0]:    ${ }^{1}$ delete or add other activities as appropriate

