



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Safety of work

### Course

Field of study

Mechanical and Automotive Engineering

Area of study (specialization)

Level of study

First-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)

Tutorials

0

Projects/seminars

0

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

dr Jerzy S. Marcinkowski

Responsible for the course/lecturer:

mail: [jerzy.marcinkowski@put.poznan.pl](mailto:jerzy.marcinkowski@put.poznan.pl)

phone: 61 665 34 08

FACULTY OF ENGINEERING MANAGEMENT

### Prerequisites

Knowledge: Student has a basic knowledge concerning secondary school safe residence principles.

Skills: Student is able to learn with understanding and use textbooks.

Social competence: Student is aware of the purpose of learning and acquiring new knowledge from the scope of work safety through the entire life.

### Course objective

The aim of the course is to introduce student with the basic: theoretical and practical problems of safety at work

### Course-related learning outcomes

Knowledge



Has basic knowledge of the basics of machine design and the theory of machines and mechanisms, including mechanical vibrations.

Is aware of the latest trends in machine construction, i.e. automation and mechatronization, automation of machine design and construction processes, increased safety and comfort of operation, the use of modern construction materials.

Has elementary knowledge of the impact of technology changes on the organization of social life as well as the health and psyche of individuals in human-machine contact.

#### Skills

Can obtain information from literature, the Internet, databases and other sources. Can integrate the obtained information, interpret and draw conclusions from it, and create and justify opinions.

Can search in catalogs and on manufacturers' websites ready-made machine components to be used in his own projects.

Can apply basic technical standards regarding unification and safety and recycling.

#### Social competences

Is ready to critically assess his knowledge and received content.

Is ready to recognize the importance of knowledge in solving cognitive and practical problems and to consult experts in case of difficulties in solving the problem on his own.

Is ready to initiate actions for the public interest.

#### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Evaluation based on the written test conducted in examination session after completion learning at II semester. Assessment also takes into account the student's activity during classes.

#### Programme content

1. Conditions implementation safety of work issues
2. Traditional approach safety of work
3. Consequences of non-compliance principles of safe and hygienic work and the principles of its shaping
  - 3.1. Accident at work
  - 3.2. Occupational disease
4. Basic information on preventive health protection of employees
5. Contemporary approach to safety of work issue
6. Legal aspects safety of work



- 6.1. Legal aspects safety of work in EU directives
- 6.2. Legal aspects safety of work in Labor Code
- 6.3. Legal aspects safety of work in state standards, industry and ministerial regulations
7. Techniques and prevention in safety of work
8. Assessment measures of safety of work
9. Principles of ensuring safety of work with machines and devices according to European requirements

### Teaching methods

Informative lecture (conventional)

### Bibliography

Basic

1. Jerzy S. Marcinkowski, Podstawy bezpieczeństwa pracy, Wyd. PP, 2011
2. Ustawa z dnia 26 czerwca 1974 r. Kodeks pracy (tekst jednolity: Dz. U. 2016, poz. 1666, ze zm.).
3. Web site: <https://www.wiedza.pkn.pl>
4. Wiesława Horst, Ergonomia z elementami bezpieczeństwa pracy, Wyd. PP, 2006
5. Jerzy S. Marcinkowski, Wiesława. M. Horst, Podstawy zarządzania bezpieczeństwem i zdrowiem w pracy, Wyd. PP, Poznań, 2012
6. Wiesława. M. Horst i inni. Ergonomia z elementami bezpieczeństwa i ochrony zdrowia w pracy. Zasady i wymagania związane z indywidualnymi cechami człowieka, Wyd. PP, Poznań, 2011
7. Wiesława. M. Horst i inni. Ergonomia z elementami bezpieczeństwa i ochrony zdrowia w pracy. Zasady i wymagania związane z indywidualnymi cechami człowieka, Wyd. PP, Poznań, 2011
8. Wiesława . M. Horst i inni. Ergonomia z elementami bezpieczeństwa i ochrony zdrowia w pracy. Zasady i wymagania związane z odbiorem i przetwarzaniem bodźców. Wyd. PP, Poznań, 2011

Additional

1. Miesięcznik Atest chrona pracy
2. Miesięcznik Przyjaciół przy pracy
3. Miesięcznik Bezpieczeństwo Pracy
4. Web site: <https://www.pkn.pl>



### Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for laboratory classes) <sup>1</sup>	10	0,5

<sup>1</sup> delete or add other activities as appropriate