



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Safety of work [N1MiBP1>BP]

### Course

Field of study

Mechanical and Automotive Engineering

Year/Semester

1/2

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

9

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

0

### Number of credit points

1,00

### Coordinators

dr inż. Aleksandra Dewicka-Olszewska

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### Lecturers

### 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:

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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

The program content covers occupational safety issues from the point of view of occupational health and safety and ergonomics, taking into account legal requirements.

### Course topics

1. Work safety and its issues, conditions and legal aspects (Labor Code, standards, EU directives).
2. Measures of work safety assessment.
3. Occupational risk in work safety - transport department.
4. Accidents at work. 5. Occupational diseases - the scope of preventive health protection of employees.
6. Techniques and prevention of work safety.
7. Principles of ensuring occupational health and safety.

### 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    | 1,00 |
| Classes requiring direct contact with the teacher                                                                                          | 9     | 0,50 |
| Student's own work (literature studies, preparation for laboratory classes/<br>tutorials, preparation for tests/exam, project preparation) | 16    | 0,50 |