STUDY MODULE DESCRIPTION FORM						
Name of the module/subject Code						
Safety measures and protection			Profile of study	1011101271011123016 Year /Semester		
			(general academic, practical)	)		
Safety Engineering - Full-time studies - First- Elective path/specialty			general academic	4 / 7 Course (compulsory, elective)		
-			Polish	obligatory		
Cycle of study: Form of study (full-time,part-time)						
First-cycle studies			part-time			
No. of hours				No. of credits		
Lecture: 12 Classes: 12 Laboratory: 8			Project/seminars:	- 3		
Status c	Status of the course in the study program (Basic, major, other) (university-wide, from another field)					
		other	univo	ersity-wide		
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Responsible for subject / lecturer:						
-	iż. W. Grzybowski					
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tel. (	61 665 3377					
	nierii Zarządzania Strzelecka 11, 60-965	Ροτηρή				
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Prere	equisites in term	s of knowledge, skills and	d social competencies:			
1	The student has a basic knowledge of ergonomics and safety.					
1	Knowledge					
2	Skills	Student is able to identify the hazards in the work environment.				
3	Social competencies	The student is able to associate the socio-economic phenomena to working conditions.				
Assu	mptions and obj	ectives of the course:				
To familiarize students with the classification, purpose, requirements and possibilities of the use of means of protection against hazardous and noxious factors in the work environment and human life.						
Study outcomes and reference to the educational results for a field of study						
Knowledge:						
1. The student is ordered, that is made up theoretically general knowledge of safety [K1A_W08]						
2. The student has a basic knowledge of the life cycle of machines and equipment [K1A_W19]						
3. The student knows the basic issues of reliability and operational safety of technical equipment, facilities, and technical systems [K1A_W20]						
4. The student knows the basic methods, techniques, tools and materials used in solving simple engineering tasks in the field						
of safety engineering [K1A_W23]						
Skills:						
1. Student is able to acquire, integrate, interpret information in the field of international communication in safety engineering; and to draw conclusions, formulate and justify opinions [K1A_U1]						
	2. The student can use different techniques to communicate in the workplace and in other environments [K1A_U2]					
3. The student is able to create in Polish and English, well-documented problems of development of Safety Engineering [K1A_U3]						
<ol> <li>The student is able to prepare and present an oral presentation, on specific issues in the field of safety engineering in Polish and foreign language [K1A_U4]</li> </ol>						
5. The student has the ability to self-learning and understands its need [K1A_U5]						
6. The student has the necessary preparation to work in an industrial environment, and knows the rules of safety associated with this work and is able to enforce their application in practice [K1A_U11]						
Social competencies:						

1. The student understands and knows the need for continuous training opportunities and enhance professional competence and personal; can argue the need for learning throughout life. - [K1A\_K01]

2. The student is able to see the cause and effect in achieving its goals and rangować importance of alternative or competing tasks. - [K1A\_K04]

### Assessment methods of study outcomes

Rating:

a) in respect of exercises: on the basis of written or oral response from the current news from the lecture,b) in respect of the lecture: on the basis of written or oral questions about the material discussed in the current and previous lectures.

Evaluation:

a) in respect of exercises: the average score of the current response,

b) in respect of the lecture: on the basis of testu.Student able to see the cause and effect in achieving its goals and rangować importance of alternative or competing tasks.

## **Course description**

Requirements for safeguards and protection of individual and collective. Conditions for admission to trade on the European market. Division and classification of safety and security measures as a function of factors, risks and the protection of particular parts of the body. Characteristics of security measures to protect against heat flux, flame, chemicals (in liquid and gas), aerosols, stroke, electromagnetic radiation, mechanical factors, static electricity, falls from heights, weather conditions, biological factors - requirements, quality assessment methods, base construction . Protection against mechanical hazards, electrical, and chemical use on equipment and structures.

#### Basic bibliography:

## Additional bibliography:

# Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	15
2. Participation in the exercises	15
3. Prepare for Training	12
4. Preparing to pass exercises	10
5. Preparing to pass lectures	15
6. Consultation	10

Student's workloadSource of workloadhoursECTSTotal workload823Contact hours401Practical activities251