STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Economics of safety project		**1011105221011126440**
Field of study	Profile of study (general academic, practical)	Year /Semester
Safety Engineering - Part-time studies - Second-	**(brak)**	**1 / 2**
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
Work Safety Management	**Polish**	**elective**
Cycle of study:	Form of study (full-time,part-time)	
Second-cycle studies	**part-time**	
No. of hours		No. of credits
Lecture: **8** Classes: **12** Laboratory: **-** Project/seminars: **-**		**4**
Status of the course in the study program (Basic, major, other)	(university-wide, from another field)	
(brak)	**(brak)**	
Education areas and fields of science and art		ECTS distribution (number and %)

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Students should know the basic economic indicators characterizing the enterprise.
2	**Skills**	Students should be able to apply the learned knowledge in practical situations during the classes laboratory exercises .
3	**Social competencies**	The student is aware of the structure of how the quality of the work influences the economic situation at the enterprise level and the state?s level. He can also discern the need for continuous improvement of knowledge.

Assumptions and objectives of the course:

Acquiring the ability to investigate the relation between action regarding safety and effects in the form of external benefits at the state and enterprise level.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. He knows the concepts such as labour costs, the consequences of poor working conditions, and economic aspects of shaping macroeconomic conditions, economic aspects of health and safety - [K2A_W08]

2. He knows the insurance systems in occupational safety, employment law, social security, health insurance, employment fund, guarantee employee benefits fund, social security law - [K2A_W27]

Skills:

1. Can acquire, integrate, interpret data from literature, database or other properly matched sources, both in English or other foreign language accepted as an international language of communication within economic safety aspects, as well as to draw conclusions, formulate and justify opinions - [K2A_U1]

2. Can apply various techniques in order to communicate in occupational environment and other environments - [K2A_U2]

3. Can create, both in English and Polish language, a well- documented report of problems within economic safety aspects, which present the results of their own research - [K2A_U3]

4. Can prepare and give oral presentation relating to detailed issues within the realm of economic safety aspects in Polish and other foreign language - [K2A_U4]

5. Has self-study ability and comprehends it - [K2A_U5]

6. Student can apply information-communicative techniques to deal with tasks that are typical of engineering activity - [K2A_U7]

7. Can, while formulating and solving engineering tasks, discern their systemic and non-technical aspects and also socio-technical, organizational and economic approach - [K2A_U10]

8. Can come up with a suggestion how to make use of state-of-the art technology (techniques and technology) within products design - [K2A_U12]

9. Has got the preparation that is indispensable to be able to work in an industrial environment and also knows safety rules connected with a given work along with the ability to impose their use in practice - [K2A_U13]

10. Is able to analyze engineering actions in economic terms - [K2A_U14]

11. Student can assess the utility of routine methods and tools that are designed for solving simple engineering tasks of practical nature, characteristic to the economic safety aspects as well as choose and apply an appropriate method and tools and also use it effectively, bearing in mind non-technical aspects - [K2A_U17]

12. Student can, according to a given specification, do an economic analysis of systems or processes connected with safety, while using appropriate methods, techniques and tools, as well as solve complex engineering tasks - [K2A_U18]

Social competencies:

1. Understands the need and knows means how to self-study (first, second and third cycle studies, postgraduate studies, qualification courses)- improving professional, personal and social competence; can argument the need to learn for the whole life - [K2A_K1]

2. Student is fully aware of the responsibility that he has taken for his own work and expresses readiness to comply with the rules of team work as well as responsibility for mutually realized and completed tasks - [K2A_K3]

3. Can determine some causal relationships in the process of targets implementation and rank pertinence of alternative or competitive tasks - [K2A_K4]

4. Is able to creatively plan and manage business ventures - [K2A_K6]

Assessment methods of study outcomes

Formative assessment:

Classes: based on two written tests

Project work: on the basis of the group project

Lectures: in the basis of a written test from the material presented during the lectures

Collective assessment:

Classes: on the basis of an arithmetic average taken from two written assignments (5 tasks); exercises are scores 0-1; positive mark will be given after doing 50% of the tasks

Project work: project assessment according to the following guideline: each group member is evaluated on the basis of individual tasks done in a project group

Lectures: an arithmetic average taken from the written tests; the answer is scored 0-1; credits will be given after achieving 51% of the total points.

Course description

Expenditures. Costs. External benefits. The labour costs. Costs of consequences with regards to poor working conditions. Economic aspects of developing work conditions. Macroeconomic aspects of developing work conditions. Economic aspects of health and safety - Economic stimulants to improve working conditions. Insurance systems in occupational safety. The social security system in Poland. Law on social security. Social insurance obligation. Determination of entitlement to social security benefits and the payment of these benefits. Assessment and collection of social security contributions, health insurance, Labour Fund and Guaranteed Employee Benefits Fund. The case law in the field of social security disability. The relationship between insurance premiums and the level of occupational safety. The criteria for determining risk categories for group activities. The rules for determining the interest rate premium on the social accident insurance for the company.

Basic bibliography:

Additional bibliography:		
Result of average student's workload		
Activity		**Time (working hours)**
1. Participation in lectures		15
2. Participation in classes		15
3. Preparation for classes		15
4. Preparation for the final credits		15
5. Overview of the credits		2
Student's workload		
Source of workload	**hours**	**ECTS**
Total workload	62	4
Contact hours	32	3
Practical activities	15	1