STUDY MODULE DESCRIPTION FORM								
Name of the module/subject Human Reliability				Code 1011102221011126463				
Field of	study			Profile of study (general academic, practical)		Year /Semester		
Safety Engineering - Full-time studies - Secon				(brak)		1/2		
Elective path/specialty Work Safety Management				Subject offered in: Polish		Course (compulsory, elective) elective		
Cycle of	f study:		For	Form of study (full-time,part-time)				
Second-cycle studies				full-time				
No. of hours				No. of credits				
Lectur	e: 15 Classes	s: 15 Laboratory: -		Project/seminars:	-	3		
Status o	Status of the course in the study program (Basic, major, other) (university-wide, from another field)							
		(brak)		(brak)				
Educati	on areas and fields of sci	ence and art				ECTS distribution (number and %)		
Resp	Responsible for subject / lecturer: Responsible for subject / lecturer:							
dr inż. Małgorzata Sławińska dr inż. Małgorzata Sławińska								
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tel. 665-3438 Faculty of Engineering Management				Faculty of Engineering Management				
ul. Strzelecka 11 60-965 Poznań				ul. Strzelecka 11 60-965 Poznań				
Prere	Prerequisites in terms of knowledge, skills and social competencies:							
1	Knowledge	Basic knowledge of technical ob psychology.	bjects exploitation and management, ergonomics and cognitive					
2	Skills	Organization of work in accorda regulations and environmental p	rdance with the requirements of ergonomics, health and safety al protection.					
3	Social competencies	Openness to change, collaboration in a team, quality evaluation of the allocated tasks.						
Assu	mptions and obj	ectives of the course:						
Gainin	acquainted with the t g the ability to apply th g process.	pasic theoretical and practical asp ne concept of distributed cognition	oects n in th	of rational development of ne design, and the use of te	opti echn	mal working conditions. ology associated with the		
Study outcomes and reference to the educational results for a field of study								
Knowledge:								
1. Student knows the concept of reliability, reliability in terms of system approach, creating measures of human reliability, psychological capacity of a man as a basis for foreseeing human errors, applying in practice the knowledge of human reliability, reliability, the psychological concept of controlling difficult situations, states of the man and his reliability - [K2A_W11]								
2. The reliabil the op	student knows the cou ty, human-technical o portunities and require	ncept of man and the world of valu bject system, the algorithm of sys ements, The use of a theoretical a	ues, stem :	main ethical categories, the analysis in terms of human	e rol fact	e of the man in ensuring tor, balance control between		
[K2A_W28] Skills:								
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1. Student 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 Safety Engineering, as well as to draw conclusions, formulate and justify opinions - [K2A_U1]

2. The student can create, both in English and Polish language, a well- documented report of problems within Safety Engineering, which present the results of their own research - [K2A_U3]

3. The student can prepare and give oral presentation relating to detailed issues within the realm of Safety Engineering in Polish and other foreign language - [K2A_U4]

4. The student has self-study ability and comprehends it - [K2A_U5]

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

6. The student can, while formulating and solving engineering tasks, discern their systemic and non-technical aspects and also socio-technical, organizational and economic approach - [K2A_U10]

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

8. The student 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]

9. The student , according to predetermined specifications, design and implement a simple device, object, system or process that is typical of Safety Engineering, by using methods, techniques and tools and solve complex engineering tasks that are characteristic of Safety engineering (including uncommon cases which have exploratory component) - [K2A_U18]

Social competencies:

1. Student 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. The 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. The student can determine some causal relationships in the process of targets implementation and rank pertinence of alternative or competitive tasks - [K2A_K4]

4. The student is aware of his social role as a university graduate. He is especially conscious of the need to formulate and pass on to the society, especially by means of media, information and opinions connected with technological advancements and other aspects of engineering activity - [K2A_K7]

Assessment methods of study outcomes

Formative assessment:

Classes: current/ongoing evaluation of tasks which understanding is checked on the basis of written tests Lectures: evaluations based on questions relating to the presented materials during the previous lectures

Collective assessment:

Classes: credits will be given on the basis of an average of partial grades within the formative assessment

Lectures: test-based written exam. One can write an exam only if he has been given credits (classes)

Course description

The concept of reliability, reliability in terms of system approach, creating measures of human reliability, psychological capacity of a man as a basis for foreseeing human errors, applying in practice the knowledge of human reliability, the psychological concept of controlling difficult situations, states of the man and his reliability

The concept of man and the world of values, main ethical categories, the role of the man in ensuring reliability, humantechnical object system, the algorithm of system analysis in terms of human factor, balance control between the opportunities and requirements, The use of a theoretical approach to cognitive psychology - cognitive ergonomics

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity

Time (working hours)

1. Lecture	15					
2. Classes	15					
3. Consultation	6					
4. Final credits- written form	3					
5. Preparation for classes	8					
6. Preparation for the final credits	8					
Student's workload						
Source of workload	hours	ECTS				
Total workload	55	2				
Contact hours	39	1				
Practical activities	15	1				