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		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject			LOOKII HOIVI OKIII	Code		
Risk	analysis			1011104221011122936		
Field of	study		Profile of study (general academic, practical)	Year /Semester		
Safe	ty Engineering -	Part-time studies - First-	(brak)	1/2		
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle o	f study:		Form of study (full-time,part-time)			
First-cycle studies			part-time			
No. of h	nours			No. of credits		
Lectu	re: 10 Classes	s: 8 Laboratory: -	Project/seminars:	8 3		
Status		program (Basic, major, other)	(university-wide, from another f	ield)		
	·	(brak)	(brak)			
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Responsible for subject / lecturer: Responsible for subject / lecturer:						
dr inż. Małgorzata Jasiulewicz-Kaczmarekdr inż. Hanna GołaśKatedra Ergonomii i Inżynierii Jakościtel. 665 33 64malgorzata.jasiulewicz- kaczmarek@put.poznan.plhanna.golas@put.poznan.pl email: malgorzata.jasiulewicz-kaczmarek@put.poznan.pl tel. 616653364 Inżynierii Zarządzania Poanań, ul. Strzelecka 11			dr inż Roma Marczewska Kuźma email: roma.marczewska-kuzma@put.poznan.pl tel. 616653364 Inzynierii Zarządzania Poznań ul. Strzelecka 11			
Prere	equisites in term	s of knowledge, skills an	d social competencies:			
1	Knowledge	Rudimentary knowledge of probability theory and technology fundamentals				
2	Skills	Solving easy exercises in probability				
3	Social competencies	Ability to work in a group				
Assu	mptions and obj	jectives of the course:				
		ncepts such as: threat and risk, ab r to assess risk by means of quality				
	Study outco	mes and reference to the	educational results for	a field of study		
Knov	vledge:			·		
	ws risk assessment m	nethods - [K1A W09]				
Skills		• - •				
	en formulating and sol	ving engineering tasks, a student	can discern their systemic and i	non-technical aspects -		
Knows safety rules connected with work in an industrial environment - [K1A_U11]						
Social competencies:						
1. Und	erstands the need to r	make progress, gain knowledge ar	nd acquire new skills - [K1A_K0	01]		
2. Understands the influence of engineering activity on an environment - [K1A_K02]						

Assessment methods of study outcomes

Faculty of Engineering Management

Formative assessment:

- a) Classes: current/ongoing evaluation of the tasks
- b) Lectures: evaluations based on questions relating to the presented materials during the current and previous lectures

Collective assessment:

- a) Classes: reports presentation (based on classes);
- b) Lectures: written test (4 open questions presented during the lecture; the final test pass equals at least 3.0

Course description

Concepts of risk, misfortunes, initiating events, critical events. Classification of threats. Potential threats. Workplace accidents, failures. Threat assessment and inconveniences in a workplace, industry and services. Occupational risk, process risk, environmental risk. Heuristic methods of risk assessment. Risk estimation. Risk assessment by means of matrix, indicative and graphic methods. Delineating safety loss. Multidimensional risk assessment. Assessment of risk acceptability based on probabilistic methods.

Basic bibliography:

- 1. Jajuga Krzysztof (red.), Zarządzanie ryzykiem (Risk management), Wydawnictwo Naukowe PWN, Warszawa 2007
- 2. Kaczmarek T., Ćwiek G.: Ryzyko kryzysu a ciągłość działania. (The risk of crisis and continuity of action) The Business Continuity Management, Warszawa 2009
- 3. Kaczmarek T.: Ryzyko i zarządzanie ryzykiem. Ujęcie interdyscyplinarne, (Risk and risk management. Interdisciplinary approach) DIFIN, Warszawa 2004

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. lecture	15
2. classes	30
3. consultation with a lecturer	10

Student's workload

Source of workload	hours	ECTS		
Total workload	55	3		
Contact hours	40	2		
Practical activities	30	1		