		STUDY MODULE D	ESCRIPTION FORM				
	f the module/subject analysis		Code 1011104221011122936				
Field of	study		Profile of study (general academic, practical	I)	Year /Semester		
Safety Engineering - Part-time studies - First-			(brak)		1/2		
Elective	path/specialty	-	Subject offered in:  Polish		Course (compulsory, elective) <b>obligatory</b>		
Cycle of study:			Form of study (full-time,part-time)				
First-cycle studies			part-time				
No. of h	ours				No. of credits		
Lectur	e: 10 Classes	s: <b>8</b> Laboratory: -	Project/seminars:	8	3		
Status o		program (Basic, major, other)	(university-wide, from another	field)	l		
(brak)			(brak)				
Educati	on areas and fields of sci	ence and art			ECTS distribution (number and %)		
Resp	onsible for subj	ect / lecturer:	Responsible for subje	ct /	lecturer:		
Gold 64m kaca ema tel. Inży	aśKatedra Ergonomii i nalgorzata.jasiulewicz- zmarek@put.poznan.p	olhanna.golas@put.poznan.pl wicz-kaczmarek@put.poznan.pl	dr inż Roma Marczewska Kuźma email: roma.marczewska-kuzma@put.poznan.pl tel. 616653364 Inzynierii Zarządzania Poznań ul. Strzelecka 11				
Prerequisites in terms of knowledge, skills and 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	ectives of the course:					
		ncepts such as: threat and risk, ab to assess risk by means of qualit					
	Study outco	mes and reference to the	educational results for	r a f	ield of study		
Knowledge:							
1. Kno	ws risk assessment m	ethods - [K1A_W09]					
Skills							
When formulating and solving engineering tasks, a student can discern their systemic and non-technical aspects - [K1A_U10]							
		cted with work in an industrial env	ironment - [K1A_U11]				
	al competencies:						
Understands the need to make progress, gain knowledge and acquire new skills - [K1A_K01]							
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. Kaczmarek

## 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				