		STUDY MODULE D	ESCRIPTION FORM			
	the module/subject	ats and risk assessment	Code 1011104241011123821			
Field of	study		Profile of study (general academic, practical)	Year /Semester		
Safety Engineering - Part-time studies - First-			(brak)	2/4		
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of	study:		Form of study (full-time,part-time)			
	First-cyc	le studies	part-time			
No. of h	ours	_		No. of credits		
Lectur	0100000	······································	Project/seminars:	8 4		
Status o	-	program (Basic, major, other)	(university-wide, from another f			
Educati		(brak)	(brak)			
Education	on areas and fields of sci	ence and an		ECTS distribution (number and %)		
Resp	onsible for subje	ect / lecturer:	Responsible for subject	ct / lecturer:		
Ada	m Górny		- Joanna Sadłowska-Wrze	sińska		
ema	il: adam.gorny@put.p	oznan.pl	email: -joanna.sadlowska-wrzesinska@put.poznan.pl			
	61 665 3407 Iział Inżynierii Zarzadz	zania	tel61 665 33 64 -Wydział Inżynierii Zarządzania			
Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań			-ul. Strzelecka 11, 60-965 Poznań			
Prere	quisites in term	s of knowledge, skills and	d social competencies:			
1	Knowledge	Student knows the risks occurrin	isks occurring in the working environment and the ways to identify them.			
2	Skills	The student is able to apply in p work environment.	ble to apply in practice the methods of identification and risk assessment in the nt.			
3	Social competencies	The student is aware of the role and importance of risk assessment related to their work in order to ensure work safety.				
Assu	mptions and obj	ectives of the course:				
		o develop safe work performance a k assessment analysis of risk usir				
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
		ically supported general knowledgesessment that are present in wor		es, risk and monitoring,		
2. Knows the basic concepts related to the reliability and safety regarding exploitation of technical equipment, facilities and technical systems - [K1A_W20]						
3. Knows methods of risk assessment, threats modelling, actions that are taken in the face of threats and accidents, assessment methodology of accidents criticality, determining the cause of accidents in working environment and/or human li and health and safety costs - [K1A_W21]						
Skills		<u>[</u>				

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 Safety Engineering, as well as to draw conclusions, formulate and justify opinions - [K1A_U01]

2. 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 - [K1A_U03]

3. Has the self-study ability and comprehends it - [K1A_U05]

4. Can conduct a critical analysis of the ways in which technical solutions function and assess, by means of Safety Engineering, the existing technical solutions, in particular machines, equipment, objects, systems, services and processes - [K1A_U13]

5. Can assess the utility of routine methods and tools that are designed for solving simple engineering tasks of practical nature, characteristic to the safety engineering as well as choose and apply an appropriate method and tools and also use it effectively - [K1A_U15]

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 - [K1A_K01]

2. 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 - [K1A_K03]

Assessment methods of study outcomes

Formative assessment:

Classes: on the basis of assigned tasks

Projects: on the basis of work progress on a given project

Lectures: evaluations based on questions relating to the presented materials during the current and previous lectures

Collective assessment:

Classes: average of partial exercises; credits given for completing a report

Projects: evaluation of the project

Lectures: written test, where at least one answer is correct (scored 0 or 1), and written answers to open questions (answers are scored on a scale of 0 to 3); credits will be given after obtaining at least 51% of possible gained points.

Course description

Formative assessment:

Classes: on the basis of assigned tasks

Projects: on the basis of work progress on a given project

Lectures: evaluations based on questions relating to the presented materials during the current and previous lectures

Collective assessment:

Classes: average of partial exercises; credits given for completing a report

Projects: evaluation of the project

Lectures: written test, where at least one answer is correct (scored 0 or 1), and written answers to open questions (answers are scored on a scale of 0 to 3); credits will be given after obtaining at least 51% of possible gained points.

Basic bibliography:

1. Horst W. (red.), Ergonomia z elementami bezpieczeństwa pracy (Ergonomics with elements of occupational safety), Wydawnictwo Politechniki Poznańskiej, Poznań, 2006

2. Romanowska-Słomka I., Słomka A., Zarządzanie ryzykiem zawodowym (Managing occupational risk), Wydawnictwo TARBONUS, Tarnobrzeg, 2005

3. Karczewski J.T., System zarządzania bezpieczeństwem pracy (Occupational safety management systems), Wyd. ODDK, Gdańsk, 2000

4. Koradecka D. (red.), Bezpieczeństwo pracy i ergonomia (Occupational safety and ergonomics), t. I i II, Centralny Instytut Ochrony Pracy, Warszawa, 1997

5. Pietrzak L., Zarządzanie bezpieczeństwem pracy i ryzykiem (Managing occupational safety and risk), Centralny Instytut Ochrony Pracy, Warszawa, 2001

6. Smoliński D., Ocena ryzyka zawodowego (Occupational risk assessment), Wyd. ODDK, Gdańsk, 1999

7. Górny A., Zarządzanie ryzykiem zawodowym (Occupational risk management), Wydawnictwo Politechniki Poznańskiej, Poznań 2011

Additional bibliography:

1. Koradecka D. (red.), Nauka o pracy - bezpieczeństwo, higiena, ergonomia (About work- safety, hygiene, ergonomics), cz. 1 - 8, Centralny Instytut Ochrony Pracy, Warszawa, 2000

Result of average stu	dent's workload	
Activity	Time (working hours)	
1. Participation in lectures		8
2. Participation in classes	8	
3. Participation in project classes	8	
4. Preparation for classes	20	
5. Preparation for written test (based on lectures)	15	
6. Preparation of a project	15	
7. Overview of an exam	2	
8. Preparation of reports (based on classes)	4	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	62	2
Practical activities	45	2