STUDY MODULE DESCRIPTION FORM								
	the module/subject	Code 1011101251011124342						
Field of study			Profile of study (general academic, practical) (brak)	Year /Semester				
Safety Engineering - Full-time studies - First- Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) elective				
Cycle of	study:		Form of study (full-time,part-time)					
	First-cyc	cle studies	full-time					
No. of h Lectur	. –	s: 30 Laboratory: -	Project/seminars:	No. of credits 4				
Status c	-	program (Basic, major, other) (brak)		(university-wide, from another field)				
Educatio	on areas and fields of sci	X /	(brak) ECTS distribution (number					
				and %)				
Resp	onsible for subje	ect / lecturer:						
Adam Górny email: adam.gorny@put.poznan.pl tel. 61 665 34 07 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań								
Prere	quisites in term	s of knowledge, skills and	d social competencies:					
1	Knowledge	Student knows the essence and importance of the information that exist in the technical documents.						
2	Skills	The student can identify the standards concerning the conditions of the executed work.						
3	Social competencies	The student is aware of the role and importance of technical documents in shaping the conditions for work performance.						
Assumptions and objectives of the course:								
	ition of skills for applyi rds requirements.	ing the standards and the way hov	v to implement regulatory requi	rements, identify records and				
	-	mes and reference to the	educational results for	a field of study				
	/ledge:							
2. Is fa	miliar with the current	ically supported general knowledg development trends as well as be		-				
[K1A_W15] 3. Knows the basic methods and techniques of work organisation - [K1A_W22]								
Skills		and teeriniques of work organisati						
 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 create, both in English and Polish language, a well- documented report of problems within Safety Engineering, which present the results of their own research - [K1A_U03]								
 Has self-study ability and comprehends it - [K1A_U05] Can, while formulating and solving engineering tasks, discern their systemic and non-technical aspects and also socio- 								
technical, organizational and economic approach - [K1A_U10] 5. Can make a critical analysis of the functioning methods and assess ? in conjunction with the Safety Engineering, the								
5. Can make a critical analysis of the functioning methods and assess ? In conjunction with the Safety Engineering, the existing technical solutions and, in particular, machines, devices, facilities, systems, processes and services - [K1A_U13]								

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 a report in a class,

Projects: on the basis of work progress

Lectures: on the basis of oral answers of the questions connected with the covered lecture content from current and previous lectures.

Collective assessment:

Classes: average of the grades achieved report preparation

Projects: assessment of the project

Lectures: written test, in which at least one answer in correct (scored 0,1) or written answers to open questions (scored 0-3);. Credits will be given after achieving at least 31% of points.

Course description

Normalization, terms, definitions. National and international normalization. International normalization units. The national standards. Accreditation, authorization and notifications. Standards documents. The technical standards. The type of standards. The harmonisation standard. Presumption of conformity with the standard. Typification and unification. Legal requirements in the area of normalization. Safety. Reliability. Risk assessment. Safe and hazardous products.

Basic bibliography:

1. Tomaszewski Z., Bezpieczeństwo wyrobów oraz ich zgodność ze standardami Unii Europejskiej (Safety of products and their compliance with the standards of the European Union), Wydawnictwo Politechniki Poznańskiej, Poznań, 2002

2. Miesięcznik Normalizacja (Normalization), wydawnictwo PKN, Warszawa

Additional bibliography:

1. Tomaszewski Z., Wprowadzenie do techniki (Introduction to technology), Wydawnictwo Politechniki Poznańskiej, Poznań, 2002

2. Kowalewski S., Dąbrowski A., Dąbrowski M., Zagrożenia mechaniczne (Mechanical hazards), Centralny Instytut Ochrony Pracy, Warszawa, 1998

Result of average student's workload

Activity	Time (working hours)			
1. Participation in lectures	15			
2. Participation in classes	30			
3. Participation in project classes	15			
4. Preparation for classes	10			
5. Preparation for written test (based on lectures)	7			
6. Preparation for a project	15			
7. Overview of the credits	2			
8. Preparation of a report (based on classes)	6			
Student's workload				

Student's	workload
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Source of workload	hours	ECTS
Total workload	100	4
Contact hours	62	2
Practical activities	45	2