Nome of		STUDY MODULE DESCRIPTION FORM						
Name of the module/subject Quality engineering 1			Code 1011101251011123823					
Field of s	study		Profile of study (general academic, practical)	Year /Semester				
Safet	ty Engineering -	Full-time studies - First-	(brak)	3/5				
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory				
Cycle of	study:		Form of study (full-time,part-time)					
First-cycle studies			full-time					
No. of hours				No. of credits				
Lectur	e: 15 Classes	: 15 Laboratory: -	Project/seminars:	- 3				
Status of	-	program (Basic, major, other)	(university-wide, from another field)					
(brak)			(brak)					
Educatio	on areas and fields of scie	ence and art		ECTS distribution (number and %)				
Responsible for subject / lecturer: Responsible for subject / lecturer:								
dr inż.Hanna Gołaś			dr inż. Anna Mazur					
	il: hanna.golas@put.p	oznan.pl	email: anna.mazur@put.poznan.pl					
tel. 00 48 61 665 33 65 Faculty of Engineering Management			tel. 00 48 61 665 33 65 Faculty of Engineering Management					
ul. S	trzelecka 11 60-965 F	Poznań		ul. Strzelecka 11 60-965 Poznań				
Prere	quisites in term	s of knowledge, skills and	d social competencies:					
1	Knowledge Student defines and describes basic concepts in safety engineering. Student knows rudimentary methods, techniques, tools and materials that are applied in dealing with simple engineering tasks within safety engineering.							
2	Skills		y requirements have not been met. Student can interpret and					
3	Social competencies		Student is aware of the meaning of quality for potential addressees and creators of its level. Student is aware of the need to develop products and processes with respect to quality.					
Assu	mptions and obj	ectives of the course:						
Developing understanding of theoretical aspects and practical ability to use quality engineering in relation to products and processes.								
Study outcomes and reference to the educational results for a field of study								
Know	ledge:							
1. Students knows advanced dependencies that are present within the framework of quality engineering of products and processes - [-]								
2. Student knows concepts for quality engineering of products and processes - [-]								
3. Students knows phenomena characteristic for quality engineering of products and processes - [-]								
enginee	ering tasks in quality e	al methods, techniques, tools and ngineering of products and proce	sses - [-]					
enginee	ering of products and	••						
and pro	ocesses - [-]	lge concerning management, incl		neering in respect to products				
7. Stud		lge of running his own business	[-]					
1. Stud	ent can identify and fo	ormulate a specification of simple		ractical nature, and are				
characteristic of quality engineering in respect to products and processes - [-] Social competencies:								
1. Unde	erstands the need to n	nake progress, gain knowledge ar to learn for the whole of his life -		ofessional, personal and social				

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Assessment methods of study outcomes

Formative assessment:

a) Classes: current/ongoing evaluation of the tasks which are correlated with lectures

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

Collective assessment:

a) Classes: 1. Reports presentation (based on classes); 2. oral answer to the set of questions (based on classes)

b) Lectures: written test (3 open questions presented during the lecture; each question is scored 2-5 points; final result is an average of partial grades; the final test pass equals at least 3.0

Course description

Fundamental approach to the problem of quality. Problematic aspect of normalization and certification. Fundamentals of pro quality management (concepts, rules, systems). Pro quality approach to products and processes including their existence process. Economic aspect of quality. The concept of constant improvement and its precursors. Methods and tools for quality improvement.

Basic bibliography:

1. Hamarol A., Zarządzanie jakością z przykładami, PWN, 2008

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)			
1. lecture	15			
2. classes	15			
3. preparation for credits (based on lectures)	30			
4. preparation for classes	40			
Student's workload				
Source of workload	hours	ECTS		
Total workload	100	4		
Contact hours	50	2		
Practical activities	15	1		