		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject						
	quality Systems	Engineering		011105311011125143		
Field of			Profile of study (general academic, practical)	Year /Semester		
Engineering Management - Part-time studies -				1/1		
Elective path/specialty Quality Systems and Ergonomics			Subject offered in: Polish	Course (compulsory, elective) elective		
Cvcle c	f study:	stems and Ergonomics	Form of study (full-time,part-time)	elective		
Second-cycle studies			part-time			
No. of hours			-	No. of credits		
Lectu		s: 10 Laboratory: -	Project/seminars:	3		
	0.4000	program (Basic, major, other)	(university-wide, from another fiel	d)		
	-	(brak)	(brak)			
Educat	ion areas and fields of sc	ience and art		ECTS distribution (number and %)		
Responsible for subject / lecturer:			Responsible for subject	/ lecturer:		
dr \	Valdemar Prussak		dr inż Małgorzata Jasiulewicz-Kaczmarek			
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	61 665 34 64 dział Inżynierii Zarząd	zania	tel. 61 665 34 65 Wydział Inżynierii Zarządzania			
	Strzelecka 11 60-965		ul. Strzelecka 11 60-965 Poznań			
Prere	equisites in term	ns of knowledge, skills an	d social competencies:			
1	Knowledge	Student has a basic knowledge of systems theory, mathematical statistics, elements of the systemic approach to pro quality management				
2	Skills	The student is able to discern system, technical, organisational and economic aspects of the pro quality management				
3	Social competencies	The student is aware of the need fro engineering development to pro quality systems				
Assı	imptions and ob	jectives of the course:				
	ality assessment, the	educational content relating to eng methods of the products? quality of				
	Study outco	mes and reference to the	educational results for a	field of study		
Knov	vledge:					
1. Has	knowledge of legal no	orms, standards and their impact of	on the organization - [K2A_W01, I	K2A_W12]		
Skill	5:					
		n-technical, organisational, socio-e				
	notice cause and effent nobjectives - [K2A_U	ect dependences dealing with basi J06]	ic engineering problems that rega	rd to quality management		
		engineering tools in quality manage	ement - [K2A_U02]			
	al competencies					
		in terms of cause and effect cons competing tasks according to their		tives implementation. He can		
	 Is aware of the interdisciplinary character of knowledge and skills that are needed to solve complex problems of an organization and a necessity to create interdisciplinary teams - [K2A_K06] 					
		Assessment metho	ds of study outcomes			

Formative assessment:

- Classes: current assessment tasks solutions during the classes
- Lectures: the current assessment of the participation in a discussion on the topics covered during previous lectures

Collective assessment:

- Written test (answers to open questions on the basis of the material covered curing the lectures in 14-15 week of a semester)

- Subject grade (lectures and classes combined) is an average of the grade from lectures and classes.

Course description

Analysis and risk assessment of the hazards and the effectiveness of the measures. Characteristics and components determining the quality of the products. Evaluation method of the quality level of products. Methods of technical control in the manufacturing process with particular emphasis on the use of resources. Analysis of critical control points and the selection of their supervision means. The use of statistical methods in engineering processes and elements of reliability theory

Basic bibliography:

1. Prussak W., Jasiulewicz-Kaczmarek M., Elementy inzynierii systemow zarządzania jakością (Elements of the quality management systems engineering), Wyd. Politechniki Poznańskiej, Poznań 2010

2. Hamrol A., Zarządzanie jakością z przykładami (Quality management with examples), PWN, Warszawa 2008

3. Łunarski J., Zarządzanie jakością. Standardy i zasady (Quality management. Standards and policies), WNT, Warszawa 2008

4. Starzyńska B., Hamrol A., Grabowska M., Poradnik menedżera jakości (Quality Manager Guide), Wyd. Politechniki Poznańskiej, Poznań 2012

Additional bibliography:

1. Olejnik T., Wieczorek R., Kontrola i sterowanie jakością (Inspection and quality control), PWN, Warszawa-Poznań 1982 2. Peslowa F., Borkowski S. (red.), Inżynieria jakości w praktyce (Quality engineering in practice), PTM, 2007

Result of average student's workload

Activity	Time (working hours)	
1. Lectures		15
2. Classes	15	
3. Classes consultation	20	
4. Preparation for classes	30	
5. Preparation for an exam	20	
6. Final exam		2
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	102	3
Contact hours	52	2
Practical activities	15	1