		STUDY MODULE D	ESCRIPTION FORM				
Name of Qual	f the module/subject ity Management			Code 1011101351011120188			
Field of	study		Profile of study (general academic, practical)	Profile of study (general academic, practical)			
Mana	agement - Full-ti	me studies - First-cycle	(brak)		3 / 5		
Elective	path/specialty	-	Subject offered in: Polish	C	Course (compulsory, elective) obligatory		
Cycle of	study:		Form of study (full-time,part-time)				
	First-cyc	cle studies	full-time				
No. of h	ours			Ν	lo. of credits		
Lectur	e: 15 Classes	s: 15 Laboratory: -	Proiect/seminars:	15	3		
Status c	of the course in the study	program (Basic, major, other)	(university-wide, from another	university-wide, from another field)			
	-	(brak)	(brak)				
Educatio	on areas and fields of sci	ence and art	ECTS distribution (number and %)				
study	effects leading	to the acquisition of engi	neering gualifications	2	2 70%		
socia	l sciences			1	30%		
00010	Economics				1 30%		
	LCOHOINICS				1 3076		
Resp	onsible for subje	ect / lecturer:	Responsible for subje	ct / le	ecturer:		
dr in	iż.Hanna Gołaś		dr inż. Anna Mazur				
ema	il: hanna.golas@put.p	poznan.pl	email: anna.mazur@put.poznan.pl				
tel. (00 48 61 665 33 65	anagement	tel. 00 48 61 665 33 65				
ul. S	Strzelecka 11 60-965 F	Poznań	ul. Strzelecka 11 60-965 P	Faculty of Engineering Management			
Prere	quisites in term	s of knowledge, skills an	d social competencies:				
	-	Student knows and understands	the basic concents and princip	alaa of	organization and		
1	Knowledge	management.	s the basic concepts and princip	Jies of	organization and		
2	Skills	The student is able to apply the management.	the use of basic knowledge of the basics of organization and				
3	Social competencies	The student is aware of the need for the development of products including the requirements .					
٨٩٩١	motions and obj	actives of the course:					
The ac	quisition of competen	ce to understand the basic concep area.	ots and the regularities of the q	uality r	nanagement as well as		
	Study outco	mes and reference to the	educational results for	' a fie	eld of study		
Know	/ledge:						
1. The	student has knowledd	e of the organizational standards	concerning quality manageme	nt - [K1	1A_W16]		
2. The	student has a basic ki	nowledge about the life cycle of th	e machines - [K01-InzA_W01]	•	-		
3. The	student has a basic k	nowledge about the life cycle of in	dustrial products - [K02-InzA_V	W01]			
4. The constru	student knows the ba	sic methods, techniques, tools an exploitation - [K04-InzA_W02]	d materials used when solving	simple	tasks of engineering		
5. The [K05-Ir	student has a basic ki zA_W03]	nowledge necessary to understan	d the non-technical determinar	nts of e	engineering activities -		
 E. The student has basic knowledge concerning management, including quality management and conducting business - [K06-InzA_W04] 							
7. The machin	student is familiar with nes exploitation - [K07	n the typical industrial technologie -InzA_W5]	s, has an in-depth knowledge c	of build	ling technologies and		
Skills							

1. The student uses normative systems and selected standards and rules in order to deal with quality management tasks - [K1A_U05]

2. The student examines solutions to specific problems from the scope of quality management and suggests appropriate solutions - [K1A_U07]

3. The student can (while formulating and solving engineering tasks)-detect their systemic, socio-technical, organizational, economic and non-technical aspects - [K01-InzA_U3]

4. The student is able to make a critical analysis of technological processes of machines production and organization of production systems - [K01-InzA_U5]

5. The student is able to identify project tasks and solve simple design tasks in the construction area and machines exploitation - [K01-InzA_U6]

6. The student is able to apply some typical methods of solutions to simple problems within the scope of the construction and machines exploitation - [K01-InzA_U7]

7. The student is able to design a construction and technology of simple parts and machines? components, as well as the organization of production process in the first degree of complexity - [K01-InzA_U8]

Social competencies:

1. The student is aware of the responsibility for his own work and can work in a team to manage the quality management system - [K1A_K02]

2. The student can discern some cause-and-effect dependencies in the process of achieving of the objectives and can rank the relevance of alternative or competing tasks - [K1A_K03]

3. Can contribute to a factual input in the preparation of the social projects and manage the ventures resulting from these projects - [K2A_K05]

4. The Student is aware of and understands the non-technical aspects and effects for engineering activity., including its impact on the environment - [K01-InzA_K1]

Assessment methods of study outcomes

Formative assessment:

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

b) Projects: current/ongoing evaluation of work progress on a given project

c) 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) Projects: evaluation of the presented solution with reference to the chosen project, which was the subject of the project work

c) 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

Basic approaches to the problematic aspect of the quality of products, processes and systems. Normalisation and certification. Pro quality management policies. Selected systems and quality management standards. Integration of management systems. The economics of quality. Improvement of quality. Foundation of TQM (Total Quality Management). Methods and tools of quality improvement (e.g., quality plan, FMEA, QFD, Ishikawa diagram, Pareto analysis, Deming wheel).

Basic bibliography:

1. Hamrol A. (2008), Zarządzanie jakością z przykładami (Quality managements with examples), Wyd. Naukowe PWN, Warszawa

2. Jasiulewicz-Kaczmarek M., Prussak W. (2010), Inżynieria systemów projakościowych (Pro quality systems engineering), Wyd. PP, Poznań

3. Prussak W. (2003, 2006), Zarządzanie jakością. Wybrane elementy (Quality management. Selected elements), Wyd. PP, Poznań

4. Gołaś H., Mazur A. (2011), Wdrażanie systemu zarządzania jakością (The implementation of the quality management system), Wyd. PP, Poznań

Additional bibliography:

1. Jasiulewicz-Kaczmarek M., Misztal A., Mrugalska B. (2011), Projektowanie systemów zarządzania jakością (Design of quality management systems), Wyd. PP, Poznań

2. Łunarski J. (2006), Zarządzanie jakością. Standardy i zasady (Quality management. Standards and policies), WNT, Warszawa

Activity

Result of average student's workload

Time (working

hours)

http://www.put.poznan.pl/

1. Lecture	15						
2. Preparation for credits (based on lectures)	10						
3. Classes	15						
4. Preparation for classes	15						
5. Project	15						
6. Preparation for the project	20						
7. Credits, final exam and project presentation	10						
Student's workload							
Source of workload	hours	ECTS					
Total workload	100	3					
Contact hours	55	2					
Practical activities	30	1					