

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Quality Management System Design		Code 1011105231011100756
Field of study Engineering Management - Part-time studies -	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 3
Elective path/specialty Quality Systems and Ergonomics	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: Second-cycle studies	Form of study (full-time,part-time) part-time	
No. of hours Lecture: 20 Classes: 14 Laboratory: - Project/seminars: -		No. of credits 4
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 4 100% 4 100%
Responsible for subject / lecturer: dr inż. Małgorzata Jasiulewicz-Kaczmarek email: malgorzata.jasiulewicz-kaczmarek@put.poznan.pl tel. 616653364 Engineering Management Poznań, ul. Strzelecka 11		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student has knowledge of standards of quality, their sources, nature, changes and ways of influencing organizations, The student has basic knowledge of quality management
2	Skills	The student knows how to use methods and tools to solve problems in the area of quality management
3	Social competencies	Student understands the need for teamwork
Assumptions and objectives of the course: Cognitive and applied knowledge of design (project management), defining stages of designing pro-quality systems including their review, verification and validation		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. He has knowledge of the subject of quality management and applied research methods as well as the specific apparatus of conceptual quality management. - [K2A_W01]		
2. He knows in depth the methods and tools for modeling communication processes in quality management - [K2A_W08]		
3. It has broadened the knowledge about the role of man in shaping an organizational culture aimed at satisfying the interested parties - [K2A_W09]		
4. It has deep knowledge of standards and standards for quality management and how organizations interact - [K2A_W12]		
Skills:		
1. He can correctly interpret and explain social, cultural, political, legal and economic phenomena and mutual relations between social phenomena - [K2A_U01]		
2. He can use theoretical knowledge to describe and analyze processes in the aspect of quality management - [K2A_U02]		
3. Can predict and model complex processes covering phenomena from different areas of the organization's operation using advanced methods and tools of quality management. - [K2A_U04]		
4. Efficiently use quality standards in quality management - [K2A_U05]		
5. Has the ability to design a quality management system compliant with ISO 9001: 2015 - [K2A_U06]		
6. Has the ability to independently propose solutions to a specific management problem and to carry out a resolution procedure, in this regard - [K2A_U07]		

Social competencies:
1. Can perceive causal relationships in the achievement of goals and rank the significance of alternative or competitive tasks - [K2A_K03]
2. He can contribute substantively to the preparation of projects related to the implementation of quality management systems and manage the projects resulting from these projects - [K2A_K05]
3. Is aware of the interdisciplinary knowledge necessary to design quality management systems - [K2A_K06]
4. Able to plan and manage business ventures - [K2A_K07]

Assessment methods of study outcomes
Formative evaluation - evaluation of current work progress - classes - evaluation of the answers given by students from the material produced - lecture Summary evaluation - public presentation (project presentation and discussion) - classes - written form, open questions

Course description
The program of the subject includes: management of organizational undertakings, analysis of the context of the organization, identification of stakeholders and their requirements, process approach to the design of pro-quality systems (identification of processes and their characteristics). Assessment of input data (requirements of management, customer specification), identification of elements requiring design, especially in the field of systems. Validation and validation of design processes. Optimization of design variants and design economics Teaching methods used: Lecture - multimedia lecture, case study analysis Classes - team work, problem solving, problem solving, problem solving, team presentation and group discussion

Basic bibliography:
1. Gołaś H., Mazur A. Wdrażanie systemu zarządzania jakością PP Poznań 2011
2. Hamrol A. Zarządzanie jakością z przykładami PP Poznań 2008
3. Kardas A. Zarządzanie w przedsiębiorstwie - środowisko, procesy, systemy, zasoby Dyfin Warszawa 2008
4. red. Borys T. Rogala P 5. Systemy zarządzania jakością i środowiskiem AE Wrocław 2007

Additional bibliography:
1. Gołaś H., Mazur A., Zarządzanie jakością, Wyd. PP, 2011.
2. Norma PN-EN ISO 9001:20015 System Zarządzania Jakością. Wymagania.
3. Norma PN-EN ISO 9000:2015 System Zarządzania Jakością. Terminologia i definicje.

Result of average student's workload	
Activity	Time (working hours)
1. Lecture	20
2. Preparation for credit	10
3. Classes	14
4. Consultate with the leaders	10
5. Preparation for classes	10
6. Credit	2

Student's workload		
Source of workload	hours	ECTS
Total workload	66	4
Contact hours	36	2
Practical activities	14	2