

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Theoretical basis of quality - Qualitology		Code 1011102211011145286
Field of study Engineering Management - Full-time studies -	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 1
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) full-time	
No. of hours Lecture: 15 Classes: 15 Laboratory: - Project/seminars: -		No. of credits 2
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 social sciences		ECTS distribution (number and %) 2 100%
Responsible for subject / lecturer: prof. dr hab. inż. Władysław Mantura. email: Wladyslaw.Mantura@put.poznan.pl tel. (61) 6653404 Faculty of Engineering Management 60-965 Poznań ul. Strzelecka 11		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basis of the set theory
2	Skills	The application of the numerical data for the real processes modelling
3	Social competencies	The understanding of the importance of the qualitative approach for solving the managerial problems
Assumptions and objectives of the course: -Knowledge of the qualitative approach to research, for cognitive and prospecting modelling of the reality		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. The student has a knowledge of human impact on creating the organization culture and management ethics - [[K2A_W06]] 2. The student knows the methods and tools of decision processes modelling - [[K2A_W09]]		
Skills:		
1. The student appropriately interprets the social, cultural, political, legal and economic issues and relations among them - [[K2A_U01]] 2. The student adopts the theoretical knowledge to describe and analyse the business environment and formulates own opinion, select the critical data and methods of analysis - [[K2A_U02]] 3. The student applies the normative systems, standards and rules for particular problems solving, especially in terms of the standards related with the social issues - [[K2A_U05]] 4. The student utilizes the theoretical knowledge for different practical issues and critically analyses the effectiveness and efficacy of the applied - [[K2A_U06]]		
Social competencies:		
1. The student applies the cause and effect relations for particular purposes and ranks the alternative or complete tasks - [[K2A_K03]] 2. The student is aware of the knowledge and competencies interdisciplinary which are required for the complex problem solving and realize the necessity for creating the interdisciplinary working groups - [[S2A_K06]]		

Assessment methods of study outcomes		
<p>Forming rating:</p> <ul style="list-style-type: none"> - lecture - short discussions checking the effectiveness of the educational process, - exercises - checking the correctness of task performance. <p>Summary rating:</p> <ul style="list-style-type: none"> - exercises - written colloquium on the last classes lasting about 60 minutes. - lectures - written exam at the end of the semester, lasting approx. 60 minutes. 		
Course description		
<p>- The fundamentals and subject of quality, the science of quality. The terminology basis. The characteristics and classification of the universal attributes. The main qualitative operations. The main qualitative approach laws. The methods and tools of qualitative modelling, for cognitive and creative, practical objectives.</p> <p>Ilościowe określanie jakości, Kolman R, PWE, Warszawa, 1973</p> <p>Teaching methods: informative lecture, practice method.</p>		
Basic bibliography:		
<ol style="list-style-type: none"> 1. Ilościowe określanie jakości, Kolman R, PWE, Warszawa, 1973 2. Teoretyczne podstawy projektowania produkcyjnych systemów sterowania jakością, Mantura W, Wyd. Ucz. Politechniki Poznańskiej, Poznań, 1990 3. Zarys kwalitologii, Mantura W., Wydawnictwo Politechniki Poznańskiej, Poznań, 2010. 4. Zarządzanie jakością. Teoria i praktyka, Hamrol A., Mantura W., PWN, Warszawa 2006. 5. Kwalitologia. Wiedza o różnych dziedzinach jakości, Kolman R., Placet, Warszawa 2009. 6. Inżynieria jakości w przedsiębiorstwach produkcyjnych, usługowych i sektorze publicznym. Praca zbiorowa pod red. P. Grudowskiego, M. Dobrzyńskiego, J. Preihs, P. Waszczura, Politechnika Gdańska, Gdańsk 2009. 		
Additional bibliography:		
<ol style="list-style-type: none"> 1. Inżynieria jakości, R. Kolman, PWE, Warszawa 1992. 2. Ilościowe określanie jakości, PWE, Warszawa 1973. 		
Result of average student's workload		
Activity	Time (working hours)	
1. Lectures	15	
2. Classes	15	
3. Preparation for the exam	10	
4. Preparation for passing the exercises	10	
5. Consultation	5	
Student's workload		
Source of workload	hours	ECTS
Total workload	55	2
Contact hours	35	1
Practical activities	15	1