STUDY MODULE DESCRIPTION FORM						
Name of the module/subject CQuality Management 1						
Profile of study (general academic, practical)	Year /Semester					
· '	Course (compulsory, elective)					
Polish	obligatory					
Form of study (full-time,part-time)						
full-time						
ı	No. of credits					
Project/seminars:	. 1					
(university-wide, from another fie	ld)					
(t	orak)					
	ECTS distribution (number and %)					
	1 100%					
	1 100%					
Responsible for subject	: / lecturer:					
dr inż. Krzysztof Koper						
email: krzysztof.koper@put.	ooznan.pl					
	and the Control of th					
•	•					
	Profile of study (general academic, practical) (brak) Subject offered in: Polish Form of study (full-time,part-time) full-ti Project/seminars: (university-wide, from another fie (k) Responsible for subject dr inż. Krzysztof Koper					

Prerequisites in terms of knowledge, skills and social competencies:

1	Knowledge	Student has fundamental knowledge about management of organizations and fundamental knowledge on innovativity and innovation development		
2	Skills	Student possesses ability of perceiving and associating of phenomena occurring in management of market oriented organizations and is able to interpret them, draw practical conclusions and to formulate opinions		
3	Social competencies	Student has the awareness of importance and understands the effects of undertaking innovative, market oriented, activities		

Assumptions and objectives of the course:

Transmitting to the students the knowledge of fundamental issues connected with understanding the role of quality category in modern economy and acquainting them with basic tools of quality engineering implementation in organizations.

Study outcomes and reference to the educational results for a field of study

Knowledge:

- 1. Has general knowledge in the field of standardization, recommendations and EU directives, international, national and industry standards in the area of quality [K2A_W09]
- 2. Has a basic knowledge of quality management systems. [K2A_W15]

Skills:

- 1. Is able to prepare a scientific paper in a foreign language on the quality issues, based on literature and other sources of information, including online sources and submit an oral presentation in this field. [K2A_U02]
- 2. Is able to advise on the selection of machines within the selected equipment group, using quality valuation methods. [K2A_U15]

Social competencies:

- 1. Is aware of and understands the importance and impact of non-technical ? quality oriented ? aspects of mechanical engineering activities and its impact on the environment. [K2A_K02]
- 2. Is aware of social role of mechanical engineer, understands the need for and is able to deliver opinions and knowledge in the field of fundamental quality issues. [K2A_K06]

Assessment methods of study outcomes	
Control test	

Course description

Definition of quality. Changes of quality. Shaping of quality. Assurance and management of quality: standard, organizational, cultural. Total Quality Management. Specificity of Japanese and American approach towards quality. ISO 9000 standards. Quality assurance and management systems. Introduction to quality assurance and management systems documentation. Methods of quality level evaluation. Introduction to quality costs.

Basic bibliography:

- 1. J.S. Oakland, Total Quality Management. Butterworth Heinemann, Amsterdam 2003
- 2. K. Ishikawa, What is total quality control? Prentice-Hall inc., Englewood Cliffs 1988
- 3. What does the CE marking on a product indicate? European Union

Additional bibliography:

- 1. T. Pfeifer, Quality management. Strategies, methods, techniques. Carl Hanser Verlag, Muenchen 2002
- 2. Directive 93/68/EEC

Result of average student's workload

Activity	Time (working hours)
1. Lecture participation	15
2. Consolidation of lecture content	3
3. Consultation	2
4. Preparation for assessment	8
5. Assessment participation	2

Student's workload

Source of workload	hours	ECTS
Total workload	30	1
Contact hours	20	2
Practical activities	0	0