		STUDY MODULE	DESCRIPTION FORM		
	of the module/subject	Code 1010622131010610240			
Field of	study hanical Enginee	ring	Profile of study (general academic, practica (brak)	Year /Semester 2 / 3	
		illig	` '		
Elective	e path/specialty Virtual	Design Engineering	Subject offered in: Polish	Course (compulsory, elective obligatory	
Cycle o			Form of study (full-time,part-time		
Second-cycle studies			full	full-time	
No. of h	nours			No. of credits	
Lectu	re: 1 Classe	s: - Laboratory:	Project/seminars:	- 1	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another	field)	
	•	(brak)		(brak)	
Educati	ion areas and fields of sc	ence and art		ECTS distribution (number and %)	
Pro ema tel. of N	oonsible for subject. f. Zbigniew Kłos ail: zbigniew.klos@put +4861 665 2231 Machines and Transpo	poznan.pl			
Prere	equisites in term	s of knowledge, skills a	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			

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.

Student has the awareness of importance and understands the effects of undertaking

conclusions and to formulate opinions

innovative, market oriented, activities

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

Knowledge:

Social

competencies

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

Skills:

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- 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	

Faculty of Working Machines and Transportation

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.

Methods of quality level evaluation. Introduction to quality costs.							
Basic bibliography:							
Additional bibliography:							
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					