

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Introduction to quality management</b>		Code <b>1010101161010107438</b>
Field of study <b>Civil Engineering First-cycle Studies</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>3 / 6</b>
Elective path/specialty <b>-</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>elective</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>15</b> Classes: <b>-</b> Laboratory: <b>-</b> Project/seminars: <b>15</b>		No. of credits <b>2</b>
Status of the course in the study program (Basic, major, other) <b>other</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art		ECTS distribution (number and %)
<b>Responsible for subject / lecturer:</b> dr hab. inż. Jerzy Paślowski, prof. nadzw. email: jerzy.paslowski@put.poznan.pl tel. +48616652113 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5 60-965 Poznań		<b>Responsible for subject / lecturer:</b> mgr inż. Piotr Nowotarski email: piotr.nowotarski@put.poznan.pl tel. +48616652190 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Knowledge about the role of quality management in the management
2	<b>Skills</b>	Ability to analyze the functioning of the production system in order to detect the causes of quality problems
3	<b>Social competencies</b>	Awareness of the role of quality in technical culture industry
<b>Assumptions and objectives of the course:</b> Indicate the great potential to improve the management of construction processes through the application of quality management system		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. Student knows the rules for creating quality management procedures - [K_W15]		
2. Student knows the causes of quality problems - [K_W15]		
3. Student knows the procedures for implementing the system of quality management - [K_W15]		
<b>Skills:</b>		
1. Can classify quality management systems in compliance with standards - [K_U13]		
2. Can describe the idea of improving the quality management system - [K_U13]		
3. Able to analyze the production system to implement quality management procedures - [K_U13]		
<b>Social competencies:</b>		
1. Can point out the advantages and disadvantages of teamwork - [K_K07]		
2. Can formulate opinions on production processes - [K_K07]		
3. Can complement and extend the knowledge in the field of quality management - [K_K07]		
<b>Assessment methods of study outcomes</b>		

<p>Student's work includes:</p> <ul style="list-style-type: none"> <li>* Active participation in lectures and exercises (also possible trip)</li> <li>* Dot design. Develop quality management procedures</li> <li>* Written test</li> </ul> <p>Rating scale (test):</p> <p>above 100 excelled</p> <p>91-100 very good (A)</p> <p>81- 90 good plus (B)</p> <p>71- good 80 (C)</p> <p>61- 70 plus sufficient (D)</p> <p>Adequate 51- 60 (E)</p> <p>50 below insufficient (F)</p> <p>Learning Methods:</p> <p>? lecture / problem lecture / lecture / lecture with multimedia presentation / story</p> <p>? exercises / exercises based on the use of various sources of knowledge (film, photographs, archives, source texts, documents, statistical yearbooks, maps, Internet, etc.) / project method / case study (case study) / classic problematic method</p> <p>Project-laboratory / project methodology /</p>		
<b>Course description</b>		
<p>Characteristics of production systems open / closed (examples), the benefits of the introduction of quality management, the genesis of quality problems (general) - milestones, the genesis of quality management in the domestic construction industry, selected definitions of quality (including the fundamental definition of quality), the role of system performance / operation in quality management, calculation procedure in the house of quality (example), the basic categories of products (+ examples), differentiation parities goods / services in various fields of activity (examples), class definition quality, determinants of quality classes (examples), the consequences of non-compliance in respect the investor and the contractor, the social consequences of non-compliance, the differences between different types of measurements, the differences between diversity and variability, the role of knowledge in managing observer variability, the importance of volatility in the strategic and operational level, the classification of the causes of variation by Shewhart), causes interference, and dualism variability</p>		
<b>Basic bibliography:</b>		
<p>1. Myszewski J. M. Po prostu jakość. Podręcznik zarządzania jakością, Wyd. Akademickie i profesjonalne, Warszawa 2009</p>		
<b>Additional bibliography:</b>		
<p>1. Zapłata S. Zarządzanie jakością w przedsiębiorstwie. Ocena i uwarunkowania skuteczności, Oficyna a Wolters Kluwer business, Warszawa 2009</p> <p>2. Nowotarski, P., J. Paślawski, and J. Matyja. &amp;#34;Usprawnianie procesów budowlanych z wykorzystaniem Lean Management.&amp;#34; Materiały Budowlane (2016).</p>		
<b>Result of average student's workload</b>		
<b>Activity</b>	<b>Time (working hours)</b>	
1. Lectures	15	
2. Projects	15	
3. Test preparation	5	
4. Project defence	5	
5. Consultation	5	
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	50	2
Contact hours	35	1
Practical activities	15	1