

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Quality management in logistics		Code 1011101461011132998
Field of study Logistics - Full-time studies - First-cycle studies	Profile of study (general academic, practical) (brak)	Year /Semester 3 / 6
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 30 Classes: 15 Laboratory: - Project/seminars: 15		No. of credits 5
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		ECTS distribution (number and %)
Responsible for subject / lecturer: dr hab. inż. Józef Fraś prof. nadzw. PP email: jozef. Fras@put.poznan.pl tel. +48 61 665 34 17 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Student knows and understands basic notions and rules within the rudiments of logistics and management
2	Skills	Student can apply and use basic knowledge of elementary logistics and management
3	Social competencies	Student is aware of the need to develop products along with requirements
Assumptions and objectives of the course: Acquiring competence of understanding fundamental notions and acquiring practical skills to solve problems within normalization and quality management		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student is able to explain in detail the concepts and phenomena characteristic of logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) as well as supply chain management - [K1A_W17] 2. Student knows how to formulate basic dependencies that are applicable within the framework of logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) as well as supply chain management - [K1A_W18] 3. Student is able to indicate current phenomena and trends in the logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) as well as supply chain management - [K1A_W19] 4. Student is able to characterize the phenomena and the best practices in logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) and supply chain management - [K1A_W20] 5. Student knows basic methods, techniques and tools used in quality management of logistic processes - [K1A_W24] 6. Student has a basic knowledge of quality engineering for products and logistic processes - [K1A_W27]		
Skills:		

<p>1. Student can do the search that is based on disciplinary literature and other sources, and can in an orderly way, present information about the issue in the framework of logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) and supply chain management - [K1A_K01]</p> <p>2. Student is sensitive to non-technical aspects and effects of engineering activities, including its impact on the environment and connected with it, responsibility for decisions in respect of a part of the logistics and supply chain management - [K1A_K02]</p> <p>3. Student is willing to cooperate and work in a group over the solutions to the problems that fall within the studied subject - [K1A_K03]</p> <p>4. Student is able to plan and manage in an entrepreneurial way - [K1A_K06]</p>
<p>Social competencies:</p> <p>1. Student is aware of the need for lifelong learning; inspiring and organizing the learning process of other persons within the framework of the issues falling in the subject matter of the studied field - [K1A_K01]</p> <p>2. Student is sensitive to non-technical aspects and effects of engineering activities, including its impact on the environment and connected with it, responsibility for decisions in respect of a part of the logistics and supply chain management - [K1A_K02]</p> <p>3. Student is willing to cooperate and work in a group over the solutions to the problems that fall within the studied subject - [K1A_K03]</p> <p>4. Student is able to plan and manage in an entrepreneurial way - [K1A_K06]</p>

Assessment methods of study outcomes	
<p>Formative assessment:</p> <p>Classes: current/ongoing evaluation (2-5) of assigned tasks;</p> <p>Projects: current/ongoing evaluation of work progress on a given project;</p> <p>Lectures: evaluations based on questions relating to the presented materials during the current and previous lectures.</p> <p>Collective assessment:</p> <p>Classes: average of partial exercises; credits given after achieving at least 3.0;</p> <p>Projects: evaluation of the presented solution with reference to the chosen project; credits given after achieving at least 3.0;</p> <p>Lectures: written exam (5 open questions with content presented during the lectures); each question is scored 2-5 points; final result is an average of partial grades; the exam pass equals at least 3.0.</p>	
Course description	
<p>The concept of quality and quality management. Development of quality in the product lifecycle. Definition and types of standards. The legal bases for normalization. Conformity assessment System. European directives and harmonised standards. . Principles of quality management. Management systems standards (with particular regard to the aspect of logistics). The quality management system and its elements. Customer service in logistics processes. Monitoring and measuring compliance with the requirements of logistics processes. The selected methods and tools of quality management and improvement of logistic processes</p>	
Basic bibliography:	
<p>1. Frąś J. Normalizacja i zarządzanie jakością w logistyce, Wydawnictwo Naukowe Ploitechniki Poznańskiej, Poznań 2015</p> <p>2. Hamrol A., Zarządzanie jakością z przykładami, Wyd. Naukowe PWN, Warszawa 2008</p> <p>3. Ładoński W., Szoltysek K. (red.), Zarządzanie jakością. Część 2. Ochrona jakości wyrobów w łańcuchu logistycznym (Quality management. Part 2. Protection of the products quality in the logistic chain), Wyd. AE Wrocław 2007.</p> <p>4. Golaś H., Mazur A., Zarządzanie Jakością, Wyd. PP, Poznań 2011</p>	
Additional bibliography:	
<p>1. Frąś J., Kompleksowe zarządzanie jakością w logistyce, Wydawnictwo Naukowe Instytutu Technologii Eksploatacji w Radomiu, Radom 2013</p> <p>2. Christopher M. Strategia zarządzania dystrybucją (Distribution management strategy), Agencja Wydawnicza Placet, Warszawa 1996.</p> <p>3. Coyle J.J., Bardi E.J., Langley Jr. C.J., Zarządzanie logistyczne (Logistic management), PWE, Warszawa 2002.</p> <p>4. Maleszka A., Łagowski E., Wdrażanie zintegrowanych systemów zarządzania (Implementation of integrated management systems), Wyższa Szkoła Logistyki, Poznań 2009.</p> <p>5. Bozarth C., Handfield R.B., Wprowadzenie do zarządzania operacjami i łańcuchem dostaw (Introduction to operations management and supply chain), Helion, Gliwice 2007.</p> <p>6. Twaróg J., Mierniki i wskaźniki logistyczne (Gauges and indicators of logistics), Instytut Logistyki i Magazynowania, Poznań 2005.</p>	
Result of average student's workload	
Activity	Time (working hours)

1. lecture	30	
2. preparation for exam	25	
3. classes	15	
4. preparation for classes	20	
5. project	15	
6. preparation of project work	20	
Student's workload		
Source of workload	hours	ECTS
Total workload	125	5
Contact hours	75	3
Practical activities	50	2