

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Inventory management		Code 1011101221011112815
Field of study Logistics - Full-time studies - First-cycle studies	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty -	Subject offered in: polish	Course (compulsory, elective) elective
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 30 Classes: - Laboratory: 15 Project/seminars: -		No. of credits 4
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 technical sciences		ECTS distribution (number and %) 4 100%
Responsible for subject / lecturer: dr inż. Piotr Cyplik email: piotr.cyplik@put.poznan.pl tel. 616653401 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student knows the basic logistical issues such as functional separation of logistics, nature customer service, the nature of transport and storage logistics.
2	Skills	Student is able to calculate a simple task with the content. He can use statistical formulas such as the mean and statistical deviation.
3	Social competencies	there is no indication
Assumptions and objectives of the course: The course aims are to familiarize students with the most important problems of inventory management in terms of independent demand and training in operational decision-making skills for reordering stock.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student has a basic knowledge of inventory management - [K1A_W14;K1A_W17;K1A_W18] 2. Student is able to identify and formulate the basic relationship between inventory and, storage, transport and other functional areas of logistics - [K1A_W14;K1A_W16;K1A_W20;K1A_W05] 3. Student knows the historical development of inventory management - [K1A_W19]		
Skills:		
1. Student can design a process to analyze the efficiency of inventory management - [K1A_U01;K1A_U12] 2. Student is able to define the problem of renewal of stocks in terms of demand independent - [K1A_U02] 3. Students can use a spreadsheet with a simple algorithm to design a reordering of stocks - [K1A_U04; K1A_U05;K1A_U09]		
Social competencies:		
1. Student shows a willingness to cooperate and assist in the design group - [K1A_K03] 2. The student is responsible for the identification and resolution of the dilemmas associated with inventory management - [K1A_K01] 3. Student is determined to think in an entrepreneurial way of inventory management - [K1A_K05]		
Assessment methods of study outcomes		

<p>Formative assessment: a) For the laboratory: on the basis of progress in the implementation stages of the project (created in laboratory), and knowledge of the issues necessary to carry b) for the lecture: on the basis of answers to questions about the topics covered in previous lectures Recapitulative assessment: a) For the laboratory: on the basis of (1) the quality of the project (2) answers to questions about the project b) for the lecture: on the basis of colloquium - written work on the issues discussed during the lecture. The exam can be applied after obtaining the ratings of the project and the laboratory. The exam is passed, after giving the correct answers to most questions</p>		
Course description		
<p>The issue of course includes the following topics: functions of inventory in logistic systems, classification of inventory, the structure of supply (inventory cycle, safety, surplus), the basic elements of inventory management to cover the needs of dependent and independent, the costs of rising, maintenance and lack of supply, demand analysis, demand forecasting, definitions of customer service, developing supply security, reordering systems inventory, optimize inventory turnover (volume of deliveries), the square root law (safety stocks in the dispersion of stock), inventory management, product groups, measures of stock.</p>		
Basic bibliography:		
<p>1. Sherbrooke C.C Optimal inventory modeling of systems: multi-echelon techniques Kluwer Academic Publishers New York 2004 2. Tempelmeier H. Inventory management in supply networks: problems, models, solutions Books-on-Demand Norderstedt 2011</p>		
Additional bibliography:		
<p>1. Coyle J. J., Bardi E. I., Langley J. Jr Zarządzanie logistyczne PWE Warszawa 2002 2. Krzyżaniak S., Cyplik P. Zapasy i magazynowanie, Tom I Zapasy, Podręcznik do kształcenia w zawodzie technik logistyki ILiM Poznań 2007</p>		
Result of average student's workload		
Activity	Time (working hours)	
1. Preparing for the Exam	10	
2. Preparation for the laboratory and to pass project	15	
3. Project realisation	25	
4. Lectures	30	
5. Laboratory	15	
6. Project consulatation	5	
Student's workload		
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	50	2
Practical activities	50	2