STUDY MODULE DESCRIPTION FORM						
_	f the module/subject	N 1	Code 1011104421011112815			
Inventory management Field of study			Profile of study	Year /Semester		
Logistics - Part-time studies - First-cycle			(general academic, practical) (brak)	1/2		
Elective path/specialty			Subject offered in:	Course (compulsory, elective)		
		-	Polish	elective		
Cycle of	f study:		Form of study (full-time,part-time)			
First-cycle studies			part-time			
No. of h	ours			No. of credits		
Lectur	re: 14 Classes	s: 14 Laboratory: -	Project/seminars:	. 5		
Status o	-	program (Basic, major, other)	(university-wide, from another fie	,		
		(brak)	(brak)			
Education areas and fields of science and art				ECTS distribution (number and %)		
Resp	onsible for subj	ect / lecturer:	Responsible for subject	/ lecturer:		
dr inż. Piotr Cyplik			dr inż. Piotr Cyplik			
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	616653401 dział Inżynierii Zarządz	zonia	tel. 616653401			
	Strzelecka 11 60-965 F		Faculty of Engineering Management 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 outco	mes and reference to the	educational results for a	a field of study		
Knowledge:						
1. Student has a basic knowledge of inventory management - [K1A_W14;K1A_W17;K1A_W18]						
 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;KInzA_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]						
	al competencies:					
 Student shows a willingness to cooperate and assist in the design group - [K1A_K03] 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					

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

Course description

The issue of course includes the following topics: functions of inventory in logistic systems (includes implementation of VMI process), classification of inventory, the structure of supply (inventory cycle, safety, surplus - identifies causes for stock obsolescence and redundancy and propose ways for minimising this), the basic elements of inventory management to cover the needs of dependent and independent (includes push/pull logic, lead time definition, product cycle vs. level of inventory management), the costs of rising, maintenance and lack of supply, demand analysis (includes method of improves the demand management process), developing supply security, reordering systems inventory (optimize level of inventory), optimize inventory turnover (volume of deliveries), the square root law (safety stocks in the dispersion of stock), inventory management).

Basic bibliography:

Practical activities

1. Cyplik P., Hadaś Ł., Zarządzanie zapasami w łańcuchu dostaw, Wydawnictwo Politechniki Poznańskiej, Poznań, 2012

- 2. Sarjusz-Wolski Z., Sterowanie zapasami w przedsiębiorstwie, PWE, Warszawa, 2000
- 3. Krzyżaniak S., Podstawy zarządzania zapasami w przykładach, ILiM, Poznań, 2008

Additional bibliography:

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 logistyk ILiM Poznań 2007

Result of average student's workload

Activity	Time (working hours)			
1. Preparing for the Exam	25			
2. Preparation for the laboratory and to pass project	15			
3. Project realisation	42			
4. Lectures	14			
5. Laboratory	14			
6. Project consulatation	15			
Student's workload				
Source of workload	hours	ECTS		
Total workload	125	5		
Contact hours	45	2		

80

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