STUDY MODULE DESCRIPTION FORM								
-	f the module/subject ntory manageme	ent	Code 1011101421011112815					
Field of study			Profile of study (general academic, pra		Year /Semester			
Logi	stics - Full-time		actical)	1/2				
Elective path/specialty			Subject offered in:		Course (compulsory, elective)			
		-	Polish		elective			
Cycle of	study:		Form of study (full-time,part-time)					
	First-cyc	le studies	full-time					
No. of h	ours				No. of credits			
Lectur	0.00000	1	Project/seminars:	-	5			
Status o		program (Basic, major, other)	(university-wide, from another field)					
		(brak)	(brak)					
Educatio	on areas and fields of sci	ence and art			ECTS distribution (number and %)			
Responsible for subject / lecturer: Responsible for subject / lecturer:								
-	ż. Piotr Cyplik		- dr inż. Piotr Cyplik	-				
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	616653401		tel. 616653401					
-	Iział Inżynierii Zarządz		Faculty of Engineering Management					
	Strzelecka 11 60-965 F		ul. Strzelecka 11 60-9		an			
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 sim as the mean and statistical devia	mple task with the content. He can use statistical formulas such ation.					
3	Social competencies	there is no indication						
Assu	mptions and obj	ectives 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	s 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;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]								
 Student is able to define the problem of renewal of stocks in terms of demand independent - [K1A_U02] Students can use a spreadchest with a simple algorithm to design a reordering of stocks. [K1A_U04: K1A_U05: K1A_U05: K1A_U00] 								
 Students can use a spreadsheet with a simple algorithm to design a reordering of stocks - [K1A_U04; K1A_U05;K1A_U09] Social 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), demand forecasting (9 stages of forecasting process), definitions of customer service (CS in 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 of product groups (includes CPFR method), measures of stock (KPI in inventory management).

Basic bibliography:

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 1. Preparing for the Exam 2. Preparation for the laboratory and to pass project 3. Project realisation 4. Lectures	Time (working hours)	
1. Preparing for the Exam	15	
2. Preparation for the laboratory and to pass project	20	
3. Project realisation	35	
4. Lectures	30	
5. Laboratory	15	
6. Project consulatation	10	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	125	5
Contact hours	45	2

80

3

Practical activities