		STUDY MODULE D	ES	CRIPTION FORM			
Name of the module/subject Inventory management				Code 10111013210111128			
Field of study Logistics - Full-time studies - First-cycle studi				Profile of study (general academic, practical (brak))	Year /Semester	
Elective path/specialty				Subject offered in: Polish		Course (compulsory, elective)	
Cycle of study:				m of study (full-time,part-time)			
First-cycle studies				full-time			
No. of h	ours					No. of credits	
Lectur	re: 30 Classes	s: 15 Laboratory: -		Project/seminars:	-	5	
Status c	-	program (Basic, major, other)	(university-wide, from another			
		(brak)			(br	-	
Educatio	on areas and fields of sci	ence and art				ECTS distribution (number and %)	
Resp	onsible for subje	ect / lecturer:	Re	sponsible for subje	ct /	lecturer:	
dr inż. Piotr Cyplik email: piotr.cyplik@put.poznan.pl tel. 616653401 Wydział Inżynierii Zarządzania				dr inż. Piotr Cyplik email: piotr.cyplik@put.poznan.pl tel. 616653401 Faculty of Engineering Management			
	Strzelecka 11 60-965 F			ul. Strzelecka 11 60-965 Poznań			
1	Prerequisites in terms of knowledge, skills and social competencies: 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		dent is able to calculate a simple task with the content. He can use statistical formulas such the mean and statistical deviation.				
3	Social competencies	there is no indication					
Assu	mptions and obj	ectives of the course:					
The co indepe	urse aims are to famil ndent demand and tra	iarize students with the most impo ining in operational decision-maki	ortan ing s	t problems of inventory ma kills for reordering stock.	anag	ement in terms of	
	Study outco	mes and reference to the	ed	ucational results for	r a f	ield of study	
Know	vledge:						
1. Stud	lent has a basic knowl	edge of inventory management -	[K1A	_W14;K1A_W17;K1A_W1	18]		
functio	nal areas of logistics -	and formulate the basic relationsh [K1A_W14;K1A_W16;K1A_W20]		-	age,	transport and other	
3. Stud Skills		al development of inventory mana	agen	nent - [K1A_W19]			
		one to analyze the officiary of the		on monogoment fizza	104		
		ess to analyze the efficiency of in ne problem of renewal of stocks in					
		dsheet with a simple algorithm to o					
Socia	al competencies:						
1. Stud	lent shows a willingne	ss to cooperate and assist in the c	desig	gn group - [K1A_K03]			
2. The student is responsible for the identification and resolution of the dilemmas associated with inventory management - [K1A_K01;KInzA_W05]							
3. Stud	lent is determined to the	nink in an entrepreneurial way of i	nver	ntory management - [K1A_	K05]	
		Assessment metho	ds (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 of product groups (includes CPFR method), measures of stock (KPI in inventory management).

Didactic methods

In lectures:

Conversational lecture

Information lecture

In the scope of laboratories:

Case studies

Computer simulation method

Project method

In the field of self-employment:

Working with a book

Basic bibliography:

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

2. Krzyżaniak S., Podstawy zarządzania zapasami w przykładach, ILiM, Poznań, 2008

3. Sarjusz-Wolski Z., Sterowanie zapasami w przedsiębiorstwie, PWE, Warszawa, 2000

4. Cyplik P., AN APPLICATION OF SPARE SUPPLIES MANAGEMENT FOR WAREHOUSE SUPPLIES OPTIMIZATION USING CLASSICAL METHODS - CASE STUDY, Logforum 1.3 (2005): 4

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	15					
2. Preparation for the laboratory and to pass project	10					
3. Project realisation	35					
4. Lectures	30					
5. Classes	15					
6. Project consulatation	20					

Student's workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	65	2
Practical activities	15	1