		STUDY MODULE DE	SCRIPTION FORM			
Name of the module/subject Logistics 2			Code 1011101421011110216			
Field of	study		Profile of study	Year /Semester		
Logi	stics - Full-time	studies - First-cycle studie	(general academic, practical) (brak)	1/2		
	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	e: 30 Classes	s: - Laboratory: 15	Project/seminars:	- 5		
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another f	,		
		(brak)		(brak)		
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Resp	onsible for subje	ect / lecturer:				
dr in	iż. Piotr Cyplik					
	ail: piotr.cyplik@put.po	znan.pl				
	616653401					
	ział Inżynierii Zarządz					
ul. S	Strzelecka 11 60-965 F	Poznań				
Prere	quisites in term	s of knowledge, skills and	social competencies:			
1	Knowledge	The student knows the basic logi customer service, the nature of tr		I separation of logistics, nature		
2	Skills	Student is able to calculate a sim as the mean and statistical devia		an use statistical formulas such		
3	Social competencies	work in group				
Assu	mptions and obj	ectives of the course:				
		iarize students with the most impor ining in operational decision-makir		nagement in terms of		
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
1. Stud	lent has a basic knowl	edge of inventory management - [I	<1A_W14;K1A_W17;K1A_W1	8]		
		and formulate the basic relationship		age, transport and other		
functional areas of logistics - [K1A_W14;K1A_W16;K1A_W20;KInzA_W05]						
		al development of inventory managed	gement - [K1A_W19]			
Skills	:					
1. Stud	lent can design a proc	ess to analyze the efficiency of inv	entory management - [K1A_L	J01;K1A_U12]		
2. Student is able to define the problem of renewal of stocks in terms of demand independent - [K1A_U02]						
3. Stud	lents can use a spread	dsheet with a simple algorithm to d	esign a reordering of stocks -	[K1A_U04;K1A_U05;K1A_U09		
Socia	I competencies:					
1. Stud	lent shows a willingne	ss to cooperate and assist in the d	esign group - [K1A_K03]			
	student is responsible	for the identification and resolution	••••	with inventory management -		
-	-	nink in an entrepreneurial way of in	ventory management - [K1A_	K05]		
		Assessment method	s 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	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