		STUDY MODULE DE	SCRIPTION FORM			
	f the module/subject stics 2		Code 1011101321011110216			
Field of Logi		studies - First-cycle studie	Profile of study (general academic, practical) s (brak)	Year /Semester		
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective)		
Cycle of	study:	1	Form of study (full-time,part-time)			
	First-cyc	cle studies	full-time			
No. of h	ours			No. of credits		
Lectur Status o	e: 30 Classes f the course in the study	- <u>5</u> ^{bld)} brak)				
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Resp	onsible for subje	ect / lecturer:	Responsible for subject	t / lecturer:		
dr hab. inż. Piotr Cyplik email: piotr.cyplik@put.poznan.pl tel. 616653401 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań			dr hab. inż. Piotr Cyplik email: piotr.cyplik@put.poznan.pl tel. 616653401 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań			
		s of knowledge, skills and				
1	Knowledge	The student knows the basic logis customer service, the nature of tra		separation of logistics, nature		
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	work in group				
Assu	mptions and obj	ectives of the course:				
		iarize students with the most import ining in operational decision-makin		agement in terms of		
<u>K</u> in a	-	mes and reference to the e	educational results for a	a field of study		
	/ledge:	edge of inventory management - [K	10 \N/11.K10 \N/17.K10 \N/19	1		
2. Stud	ent is able to identify	and formulate the basic relationship [K1A_W14;K1A_W16;K1A_W20]				
	-	al development of inventory manag	ement - [K1A_W19]			
Skills	:					
	•	ess to analyze the efficiency of inve		-		
		ne problem of renewal of stocks in t	•			
	Il competencies:	dsheet with a simple algorithm to de	sign a reordening of Stocks - [NTA_004,NTA_000;NTA_009]		
		ss to cooperate and assist in the de	sign group - [K1A_K03]			
 The student is responsible for the identification and resolution of the dilemmas associated with inventory management - [K1A_K01;KInzA_W05] 						
3. Student is determined to think in an entrepreneurial way of inventory 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), 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	15			

Student's workload

Source of workload	hours	ECTS
Total workload	120	5
Contact hours	60	2
Practical activities	15	1