		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject	inventory management in	the supply chain	Code 1011105421011117940		
Modern concepts of inventory management in Field of study			Profile of study	Year /Semester		
Logistics - Part-time studies - Second-cycle			(general academic, practical general academic	,		
Elective path/specialty			Subject offered in:	Course (compulsory, elective)		
Chain of Delivery Logistics			Polish	elective		
Cycle of	f study:		Form of study (full-time,part-time))		
Second-cycle studies			part-time			
No. of h	iours			No. of credits		
Lectur	re: 16 Classes	s: - Laboratory: -	Project/seminars:	16 5		
Status o	-	program (Basic, major, other)	(university-wide, from another			
		other	university-wide			
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Resp	onsible for subje	ect / lecturer:	Responsible for subject / lecturer:			
	ab. inż. Piotr Cyplik ail: piotr.cyplik@put.po	znan nl	dr hab. inż. Piotr Cyplik email: piotr.cyplik@put.poznan.pl			
	616653401	znan.pi	tel. 616653401	znan.pi		
	dział Inżynierii Zarządz		Faculty of Engineering Management			
	Strzelecka 11 60-965 F		ul. Strzelecka 11 60-965 F			
Prere	equisites in term	s of knowledge, skills and	d social competencies	:		
1	Knowledge	essence of customer service, the	stical issues such as functional separation of logistics, the ne nature of transport and storage logistics. cepts of inventory management: EOQ, SL, ROP, the maximum			
2	Skills	Student is able to calculate a sin as the mean and statistical devia	nple task with the content. He can use statistical formulas such ation.			
3	Social competencies	Student can work in group				
Assu	mptions and obj	ectives of the course:				
	dependent skills trainir	e students with in-depth inventory ng in their operational decisions or	renewal of stocks in the supp	bly chain.		
	Study outco	mes and reference to the	educational results for	r a field of study		
Know	vledge:					
		knowledge of inventory managem				
		rticulate the relationship between <2A_W05;K2A_W06;K2A_W07]	inventory, storage, transport a	and other functional areas of		
		ory management techniques used	l in supply chains - [K2A_W09	;K2A_W10]		
Skills						
1. Students can design a process to analyze the efficiency of inventory management in supply chain - [K2A_U05;K2A_U07]						
 Student is able to define the reorder of stocks problem in a supply chain - [K2A_U09] Student can use a spreadsheet with a simple algorithm to design a restoration of stocks in a single link of the supply chain 						
	_U10;K2A_U12]	shoot with a simple algorithm to ut	100 100 100 100 100 100 100 100 100 100			
Socia	al competencies:					
		p and cooperate in the project gro				
[K2A_ł	<07]	for the identification and resolution		, ,		
3. The	student is determined	to think in an entrepreneurial way	of inventory management - [k	<2A_K06]		
		Assessment method	ds of study outcomes			

Formative assessment:

a) For the project: on the basis of progress in the implementation stages of the project, 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 project: 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 supply chains, the impact of stocks on the basic objectives of supply chain planning methods in stocks in the supply chain, allocation of inventory in the supply chain policy-renewal of inventory in the supply chain, multi-stage inventory management systems, TOC Replenishment, VMI - CMI - SMI strategies, Stochastic Inventory Control. Managerial decision-making based on case studies.

Didactic methods:

Lecture: conversational lecture

Project: project method

Basic bibliography:

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

2. Sherbrooke C.C Optimal inventory modeling of systems: multi-echelon techniques Kluwer Academic Publishers New York 2004

3. Tempelmeier H. Inventory management in supply networks: problems, models, solutions Books-on-Demand Norderstedt 2011

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

2. Coyle J. J., Bardi E. I., Langley J.Jr. Zarządzanie logistyczne PWE Warszawa 2002

Result of average student's workload

Activity	Time (working hours)			
1. Preparing for the Exam		25		
2. Project	48			
3. Lectures	16			
4. Classes	16			
5. Project consultation	20			
Student's workload				
Source of workload	hours	ECTS		
Total workload	125	5		
Contact hours	52	2		
Practical activities	73	3		