		STUDY MODULE D	ESCRIPTION FORM	-		
	f the module/subject	inventory management ir	the supply chain	Cod	le 1102421011117940	
Field of		inventory management in	Profile of study	1.01	Year /Semester	
		studios - Socond-ovelo	(general academic, practica	,	4.10	
	path/specialty	studies - Second-cycle	general academic	6	1 / 2 Course (compulsory, elective)	
LICOUVO		f Delivery Logistics	Polish		elective	
Cycle of	f study:		Form of study (full-time,part-time	e)		
Second-cycle studies			full-time			
No. of h	ours				No. of credits	
Lectur	re: 30 Classes	s: - Laboratory: -	Project/seminars:	30	5	
Status o		program (Basic, major, other)	(university-wide, from another field)			
		other	univ	versi	ty-wide	
Education	on areas and fields of sci	ence and art			ECTS distribution (number and %)	
techr	nical sciences				5 100%	
coom					0 10070	
Resp	onsible for subje	ect / lecturer:	Responsible for subj	ect /	lecturer:	
dr h	ab. inż. Piotr Cyplik		dr hab. inż. Piotr Cyplik			
	ail: piotr.cyplik@put.po	znan.pl	email: piotr.cyplik@put.poznan.pl			
	616653401 dział Inżynierii Zarządz	rania	tel. 616653401 Faculty of Engineering Management			
	Strzelecka 11 60-965 F		ul. Strzelecka 11 60-965 Poznań			
Prere	equisites in term	s of knowledge, skills an	d social competencies	5:		
1	<b>Knowledge</b> 1. Student knows the basic logistical issues such as functional separation of logistics, the essence of customer service, the nature of transport and storage logistics.					
		2. Student knows the basic concepts of inventory management: EOQ, SL, ROP, the maximum level of inventories.				
2	Skills	Student is able to calculate a sir as the mean and statistical devia	mple task with the content. He can use statistical formulas such iation.			
3	Social competencies	Student can work in group				
Assu	-	ectives of the course:				
Main o	bjective is to familiariz	e students with in-depth inventory ig in their operational decisions or				
	Study outco	mes and reference to the	educational results for	or a f	ield of study	
Know	vledge:					
1. The	student has a deeper	knowledge of inventory managen	nent - [K2A_W02;K2A_W03]			
	lent can identify and a s, supply łańcuhca - [l	rticulate the relationship between	inventory, storage, transport	and ot	her functional areas of	
-		ory management techniques used	d in supply chains - [K2A W12	2;K2A	W13]	
Skills						
1. Students can design a process to analyze the efficiency of inventory management in supply chain - [K2A_U05;K2A_U09]						
2. Stuc	lent is able to define th	ne reorder of stocks problem in a	supply chain - [K2A_U04]			
	lent can use a spreads _U17;K2A_U19]	sheet with a simple algorithm to d	esign a restoration of stocks in	n a sir	ngle link of the supply chain	
	al competencies:					
	•	o and cooperate in the project gro	up - [K2A K03]			
	student is responsible	for the identification and resolution		d with	inventory management -	
		to think in an entrepreneurial way	of inventory management - [	K2A_I	<03]	
			¥			

## Assessment methods 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 stud	lent's workload	
Activity		Time (working hours)
1. Preparing for the Exam		20
2. Project		35
3. Lectures		30
4. Classes		30
5. Cosultations		10
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	125	5

70

55

3

2

Contact hours

Practical activities