		STUDY MODULE D	ESCRIPTION FORM				
Name of the module/subject Inventory management in supply chain			Code 1011105321011117936				
Field of study			Profile of study (general academic, practical	,			
		studies - Second-cycle	(brak)	<u> </u>			
Elective path/s		f Delivery Logistics	Subject offered in: Polish	Course (compulsory, elective) elective			
Cycle of study			Form of study (full-time,part-time)				
Second-cycle studies			part-time				
No. of hours				No. of credits			
Lecture:	16 Classes	: - Laboratory: -	Project/seminars:	16 5			
Status of the course in the study program (Basic, major, other)			(university-wide, from another field)				
		(brak)	(brak)				
Education are	as and fields of scie	ence and art		ECTS distribution (number and %)			
technical	sciences			5 100%			
Technical sciences				5 100%			
Responsible for subject / lecturer: Responsible for subject				ct / lecturer:			
	iż. Piotr Cyplik		dr hab. inż. Piotr Cyplik				
email: pic tel. 61665	otr.cyplik@put.po	znan.pl	email: piotr.cyplik@put.poznan.pl				
	nżynierii Zarządz	ania	tel. 616653401 Faculty of Engineering Management				
	ecka 11 60-965 F		ul. Strzelecka 11 60-965 Poznań				
Prerequis	sites in term	s of knowledge, skills an	d social competencies:	:			
1 Kn	owledge	essence of customer service, th	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 Sk	ills		nple task with the content. He can use statistical formulas such ation.				
3	cial mpetencies	Student can work in group					
Assumpt	ions and obj	ectives of the course:					
		e students with in-depth inventory og in their operational decisions of		ns of demand and the dependent ly chain.			
	Study outco	mes and reference to the	educational results for	a field of study			
Knowled	ge:			-			
	-	knowledge of inventory managen	nent - [K2A_W02;K2A_W03]				
 Student can identify and articulate the relationship between inventory, storage, transport and other functional areas of logistics, supply lańcuhca - [K2A_W05;K2A_W06;K2A_W07] 							
3. Student recognizes inventory management techniques used 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 							
- [K2A_U10;K2A_U12] Social competencies:							
1. Student is prepared to help and cooperate in the project group - [K2A_K07]							
 The student is prepared to help and cooperate in the project group [h2/_help] The student is responsible for the identification and resolution of the dilemmas associated with inventory management - [K2A_K07] 							
	3. The student is determined to think in an entrepreneurial way of inventory management - [K2A_K06]						

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 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 wo	kload			
Source of workload	hours	ECTS		
Total workload	125	5		

52

73

2

3

Contact hours Practical activities