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		STUDY MODULE D	ES	CRIPTION FORM		
Name of the module/su Logistics 2	ubject				Code 011	101421011110216
Field of study				Profile of study (general academic, practical)	Y	ear /Semester
Logistics - Full-time studies - First-cycle studie			es	general academic		1/2
Elective path/specialty	,			Subject offered in:	С	Course (compulsory, elective)
		-	_	Polish		elective
Cycle of study:			For	m of study (full-time,part-time)		
First-cycle studies				full-time		
No. of hours					N	lo. of credits
Lecture: 30	Classes	s: - Laboratory: 15	,	Project/seminars:	-	5
Status of the course in	-	program (Basic, major, other)	(university-wide, from another fie	,	
		other		unive		/-wide
Education areas and fields of science and art technical sciences						CTS distribution (number nd %)
					5	5 100%
Responsible fo	or subje	ect / lecturer:	Re	sponsible for subjec	t / le	ecturer:
dr hab. inż. Piotr	Cyplik			dr hab. inż. Piotr Cyplik		
email: piotr.cyplik@put.poznan.pl email: piotr.cyplik@put.poznan.pl					I	
tel. 616653401 Wydział Inżynieri	ii Zarzadz	zania		tel. 616653401 Faculty of Engineering Man:	adem	ent
Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań				ul. Strzelecka 11 60-965 Poznań		
Prerequisites	in term	s of knowledge, skills an	d s	ocial competencies:		
1 Knowled	dge	The student knows the basic logistical issues such as functional separation of logistics, nature customer service, the nature of transport and storage logistics.				ration 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 compete	encies	work in group				
Assumptions a	and obj	ectives of the course:				
		iarize students with the most impo iining in operational decision-mak			agem	nent in terms of
Study	outco	mes and reference to the	ed	ucational results for	a fie	ld of study
Knowledge:						
1. Student has a ba	sic knowl	edge of inventory management -	[K1A	W14;K1A_W17;K1A_W18	5]	
		and formulate the basic relationsh		etween inventory and, storage	ge, tra	ansport and other
	•	[K1A_W14;K1A_W16;K1A_W20]		oont [K1A W40]		
Skills:	ie nistorio	cal development of inventory mana	agen	ient - [KTA_WT9]		
	an a proc	ess to analyze the efficiency of in	Vent	ory management - [K1A TI	11·K1	Δ 11121
	•	ne problem of renewal of stocks in				-
		dsheet with a simple algorithm to		·	-	-

Social competencies:

- 1. Student shows a willingness to cooperate and assist in the design group [K1A_K03]
- 2. 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 methods of study outcomes

Faculty of Engineering Management

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).

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. Laboratory	15
6. Project consulatation	15

Student's workload

Source of workload	hours	ECTS
Total workload	120	5
Contact hours	60	3
Practical activities	15	1