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Skills:

		STUDY MODULE D	ESCRIPTION	FORM		
Name o	of the module/subject	OTODI MODOLL D			nde	
Sup	ply chain manag	ement		10	11105331011112836	
Field of	study		Profile of study (general acade		Year /Semester	
Eng	ineering Manage	ment - Part-time studies -	(brak)	imo, practical)	2/3	
Elective path/specialty Enterprise Management			Subject offered	lin: blish	Course (compulsory, elective) elective	
Cycle of study:		-	Form of study (full-ti	me,part-time)		
Second-cycle studies			part-time			
No. of I	nours				No. of credits	
Lectu	re: 14 Classe	s: 10 Laboratory: -	Project/semir	nars:	3	
Status	of the course in the study	program (Basic, major, other)	(university-wide,	from another field)	
		(brak)	(brak)			
Educat	ion areas and fields of sci	ence and art			ECTS distribution (number and %)	
Resp	onsible for subj	ect / lecturer:	Responsible f	for subject /	lecturer:	
dr i	nż. Katarzyna Grzybov	wska	dr inż. Katarzy	dr inż. Katarzyna Grzybowska		
	ail: katarzyna.grzybow	ska@put.poznan.pl	email: katarzyna.grzybowska@put.poznan.pl			
	61 665 33 96 culty of Engineering Ma	anagement	tel. 61 665 33 96 Faculty of Engineering Management			
	Strzelecka 11 60-965 l	_	ul. Strzelecka 11 60-965 Poznań			
Prere	equisites in term	s of knowledge, skills and	d social comp	etencies:		
1	Knowledge	has a basic knowledge of manag processes,	gement and organizational processes, including logistics			
2	Skills	able to identify the stages of mat	iterial flow in the enterprise			
3	Social competencies	there is no indication				
Assı	_	jectives of the course:				
	-	problems of supply chain manager	ment,			
	Study outco	mes and reference to the	educational re	esults for a	field of study	
Knov	vledge:					
1. Stu	dent is able to define t	he distribution problems as the ess	sential elements of	the logistics pro	ocess - [[K1A_W14]]	
2. Stu	dent is able to using a	spreadsheet to design simple algo	rithms necessary f	for the distribution	on - [[K1A_W15]]	
(inven		n in detail the concepts and pheno istics, distribution logistics and sup				
specifi		o formulate basic dependencies the anagement, logistics, distribution lo [W18]]				
	0 11 =	roducts, equipment, technical syste	ems - [[K1A_W19]]		
		s connected with reliability and sec	urity in maintaining	technical equip	oment, objects and technical	
systen	ns - [[K1A_W20]]					

Faculty of Engineering Management

- 1. The student can do the search that is based on disciplinary literature and other sources, and can in an orderly way, present information about the issue in the framework of logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) and supply chain management [[K1A_K01]]
- 2. The student is sensitive to non-technical aspects and effects of engineering activities, including its impact on the environment and connected with it, responsibility for decisions in respect of a part of the logistics and supply chain management [[K1A_K02]]
- 3. has self-study ability and comprehends it [[K1A_U05]]
- 4. can make use of analytic, simulation and experimental methods to formulate and solve engineering problems [[K1A_U09]]
- 5. can conduct a critical analysis of the ways in which technical solutions function and assess, by means of Security Engineering, the existing technical solutions, in particular machines, equipment, objects, systems, services and processes [[K1A_U13]]

Social competencies:

- 1. is aware of the relevance of the study and understands non-technical aspect as well as the consequences of engineering activity, including its impact on environment and taken responsibility of his decisions [[K1A K02]]
- 2. Student is responsible for the identification and resolution of the dilemmas associated with inventory management [[K1A_K05]]

Assessment methods of study outcomes

Formative assessment:

current check of the acquired knowledge and skills learnt during lectures

Collective assessment:

a test based written exam within exam session

Course description

The definition of the supply chain. Principles of supply chain operations: Maintain inventory in supply chain; Strategies to manage volatile demand in supply chain (Supply Buffer Management/Inventory Buffers/Capacity Buffers; Cycle Time Reduction Strategies; Postponement Strategies; Collaborative Processes; forecast and plan); Collaborative planning, forecasting, and replenishment (CPFR - nine steps); Analysis of Inventory - across the entire network; Conventional and integrated supply chains: Lean & Agile supply chain; Vendor-managed inventory (VMI); VMI - expectations of all parties; Information management (supplier - customer); VMI - Review process; JiT II: Explore the impact of forecasting models on the supply chain; Analysis of Inventory - across the entire network; The logistics operator in the supply chain (3rd party logistics, 4th party logistics). Benchmarking in the supply chain: Reduce variation in the supply chain; Problem solving techniques in process (define the problem; gather information; identify alternative solutions; evaluate the options and select the best option; evaluate the action); Problem solving techniques (Brainstorming; Mind mapping; 5 Why's; Cause and effect analysis (Fish bone diagram); PDCA Cycle); Identify process improvement opportunities (value stream mapping);

Basic bibliography:

- 1. Ciesielski M. (red.), (2009), Instrumenty zarządzania łańcuchami dostaw, Polskie Wydawnictwo Ekonomiczne, Warszawa
- 2. Sołtysik M., Świerczek A., (2009) Podstawy zarządzania łańcuchami dostaw, Wydawnictwo Akademii Ekonomicznej, Katowice
- 3. Witkowski J., (2010), Zarządzanie łańcuchem dostaw. Koncepcje, procedury, doświadczenia, Polskie Wydawnictwo Ekonomiczne, Warszawa

Additional bibliography:

- 1. Bozarth C., Handfield R.B., (2007), Wprowadzenie do zarządzania operacjami i łańcuchem dostaw, Helion ? One Press, Katowice
- 2. Ciesielski M., Długosz J. (red.), (2010), Strategie łańcuchów dostaw, Polskie Wydawnictwo Ekonomiczne, Warszawa
- 3. Fechner I., (2007), Zarządzanie łańcuchem dostaw, Wyższa Szkoła Logistyki, Poznań

Result of average student's workload

Activity	Time (working hours)
1. Lectures	15
2. Project	15
3. Prepare for Training	45
4. Consultations	15
5. Work to project	5
6. Preparing to pass	3
7. Exam	2

Student's workload

http://www.put.poznan.pl/

Poznan University of Technology Faculty of Engineering Management

Source of workload	hours	ECTS
Total workload	100	4
Contact hours	30	1
Practical activities	70	3