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systems - [[K1A_W20]]

Skills:

Name of the module/subject Supply chain management						Code 1011104451011112836	
Field of study				Profile of study (general academic, practical)		Year /Semester	
Logistics - Part-time studies - First-cycle			(k	(brak)		3/5	
Elective path/specialty			Sub	ject offered in: Polish		Course (compulsory, elective) obligatory	
Cycle o	f study:		Form of	Form of study (full-time,part-time)			
First-cycle studies				part-time			
No. of h	nours		1			No. of credits	
Lectu	re: 14 Classes	s: - Laboratory: -	Proj	ect/seminars:	4		
Status	of the course in the study	program (Basic, major, other)	(unive	rsity-wide, from anotl	ner field)		
		(brak)			(br	ak)	
Educat	on areas and fields of sci	ence and art				ECTS distribution (number and %)	
technical sciences						4 100%	
Resp	onsible for subj	ect / lecturer:	Respo	nsible for sub	ject /	lecturer:	
	nż. Roman Domański		dr in	ż. Roman Domańs	ki		
	ail: roman.domanski@	put.poznan.pl		l: roman.domanski	@put.p	ooznan.pl	
	616653385			tel. 616653385			
	culty of Engineering Ma Strzelecka 11 60-965 F		Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań				
		s of knowledge, skills and				un	
1	Knowledge	has a basic knowledge of managerocesses,	of management and organizational processes, including logistics				
2	Skills	able to identify the stages of material flow in the enterprise and supply chain					
3	Social competencies	there is no indication					
Assu	mptions and obj	ectives of the course:					
		problems of supply chain manage	ement				
	Study outco	mes and reference to the	educa	tional results	for a	field of study	
Knov	vledge:						
	dent is able to define the M14]]	ne supply chain management prob	blems as	the essential elem	ents of	the logistics process -	
2. Student is able to using a spreadsheet to design simple algorithms necessary for the supply chain management - [[K1A_W15]]							
(inven		n in detail the concepts and pheno stics, distribution logistics and sup					
		formulate basic dependencies that	at are ap	plicable within the	framew	ork of logistics and its	

STUDY MODULE DESCRIPTION FORM

specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) as well as supply chain management - [[K1A_W18]]

6. knows elementary notions connected with reliability and security in maintaining technical equipment, objects and technical

5. . has basic knowledge of products, equipment, technical systems - [[K1A_W19]]

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 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 supply chain 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; 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; Vendormanaged 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; 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, Coordination of activities in the supply chain 8. Strengths & Weaknesses of the Supply Chain: lean & agile supply chain - focus on customer needs; Opportunities and risks associated with the participation of companies in the supply chain: Build partnerships and alliances with supply chain members; The bottleneck resources Process management in the supply chain: Analyses the supply chain by using value stream mapping (Flowcharting technique); Visualise product/work flows; Identifying value add and non value add activities; Identifying improvement opportunities (Kaizen); Synchronising flow; 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); Identify process improvement opportunities (value stream mapping; six sigma);

Basic bibliography:

- 1. Ciesielski M. (red.), (2009), Instrumenty zarządzania łańcuchami dostaw, Polskie Wydawnictwo Ekonomiczne, Warszawa
- 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
Activity	hours)

3

2

6. Preparing to pass

7. Exam

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

1. Lectures 14 2. Project 14 3. Prepare for Training 15 4. Consultations 47 5. Work to project 5

Student's workload

Source of workload	hours	ECTS
Total workload	100	4
Contact hours	28	1
Practical activities	72	3