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		STUDY MODULE D	ESCRIPTION FORM		
	of the module/subject			Code 1011104351011112836	
Field of study			Profile of study (general academic, practical)	(general academic, practical)	
Logistics - Part-time studies - First-cycle Elective path/specialty			(brak) Subject offered in:	3 / 5 Course (compulsory, elective)	
LIECTIVE	pati/specialty	-	Polish	obligatory	
Cycle o	f study:		Form of study (full-time,part-time)	<u> </u>	
First-cycle studies			part-	part-time	
No. of h	nours			No. of credits	
Lectu	re: 14 Classes	s: 14 Laboratory: -	Project/seminars:	- 4	
Status		program (Basic, major, other)	(university-wide, from another fi	eld)	
	ı	(brak)		brak)	
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
technical sciences				4 100%	
	Technical scie	ences		4 100%	
Resp	onsible for subj	ect / lecturer:	Responsible for subject	t / lecturer:	
dr ii	nż. Katarzyna Grzybov	vska	dr inż. Katarzyna Grzybows	ka	
	ail: katarzyna.grzybow	ska@put.poznan.pl		email: katarzyna.grzybowska@put.poznan.pl	
	61 665 33 96 ulty of Engineering Ma	anagement	tel. 61 665 33 96 Faculty of Engineering Man	agement	
	Strzelecka 11 60-965 F	_	ul. Strzelecka 11 60-965 Po		
Prere	equisites in term	s of knowledge, skills an	d social competencies:		
1	Knowledge	has a basic knowledge of management and organizational processes, including logistics processes,			
2	Skills	able to identify the stages of material flow in the enterprise			
3	Social competencies	there is no indication			
Assu	mptions and obj	ectives of the course:			
-introd	uce students with the	problems of supply chain manage	ment,		
- The s	student's knowledge, s	kills and social competencies rela	ted to supply chain managemen	nt	
- Fami		e essence and principles of suppl	•		
		mes and reference to the	educational results for	a field of study	
	vledge:				
		ncies in logistics and supply chain	-		
		s for logistics and supply chain ma	-	[K1A W16]	
	-	omena characteristic for logistics a naracteristic concepts for logistics			
[K1A_		and to to the total	and no opcome issues and supp	on and management	

- $5.\ knows\ how\ to\ formulate\ basic\ dependencies\ within\ logistics\ and\ supply\ chain\ management\ -\ [K1A_W18]$
- 6. can identify current trends in logistics and supply chain management [K1A_W19]
- 7. can describe the best practices in the logistics and supply chain management of the phenomenon [K1A_W20]

Skills:

Faculty of Engineering Management

- 1. can search on the literature of the subject and other sources and in an orderly way present information about the problem that lies within the logistics and supply chain management [K1A_K01]
- 2. is able to present the problem within the framework of logistics and supply chain management with appropriately chosen means [K1A K02]
- 3. can prepare and present an oral presentation on specific issues in the field of logistics in Polish and foreign language -[K1A_U04]
- 4. is able to independently develop a given problem within the studied subject [K1A_U05]
- 5. can formulate using analytical, simulation or experimental methods within the studied subject design task and solve this task in the field of logistics and supply chain management Security Engineering, the existing technical solutions, in particular machines, equipment, objects, systems, services and processes [K1A_U09]
- 6. is able to assess economically the chosen problem within the framework of logistics and supply chain management [K1A_U12]
- 7. can perform critical analysis on a problem within the framework of logistics and supply chain management [K1A_U13]
- 8. can design using the appropriate methods and techniques of an object, system, or process that meets the requirements of logistics and supply chain [K1A_U16]

Social competencies:

- $1. is willing to cooperate and work in a group on solving supply chain management problems [K1A_K03]\\$
- 2. is able to perceive causal relationships in accomplishing the goals set and importance of tasks [K1A_K04]
- 3. can correctly identify and resolve the dilemmas connected with performing the profession of logistics [K1A_K05]
- 4. knows the typical engineering technologies in the field of supply chain management [KInzA_W05]

Assessment methods of study outcomes

Formative assessment:

current check of the acquired knowledge and skills learnt during lectures

Within the scope of the exercises: on the basis of an assessment of the current progress of tasks (self and in groups, expression of opinions)

Lectures: based on answers to questions about the material discussed in the lectures

Collective assessment:

a test based written exam within exam session

Within the scope of the exercises: on the basis of public presentation on the subject; a written test of the converted material Lectures: Written answer to open questions; a minimum of 60% points;

Course description

Faculty of Engineering Management

- 1. Definition of the supply chain. Supply Chain Principles: Maintaining Supply in the Supply Chain; Supply Chain Management Strategies (Buffer Management / Buffer Inventory / Buffer Capacity, Time Reduction Strategy, Deferral Strategy, Joint Processes, Forecasting and Plan); CPFR strategy (nine steps); Stock analysis across the network;
- 2. Conventional and integrated supply chains: Slim and agile supply chain; Inventory managed by the supplier (VMI); VMI expectations of all parties; Information management (supplier Customer); VMI evaluation process
- 3. JiT II: Study of the impact of forecasting models in the supply chain; Stock analysis across the network;
- 4. Logistic operator in the supply chain (3rd party logistics, 4th party logistics).
- 5. Benchmarking in the Supply Chain: Reduce volatility in the supply chain; Techniques for problem solving in the process (problem definition, information gathering, identification of alternatives, assessment of variants and selection of the best solution, evaluation of activities); Problem-solving techniques (brainstorming, Mind Mapping, 5 x why; Cause-effect analysis; PDCA cycle); Identification of process improvement capabilities (value stream mapping)
- 6 SCORM mode
- 7. Coordination of activities in the supply chain
- 8. Strong and weak supply chains: Slim and agile supply chains Focus on customer needs

Opportunities and threats related to the participation of the enterprise in the supply chain: Building partnerships and agreeing with the members of the supply chain; Bottlenose-type resources;

10 Supply Chain Management: Supply Chain Analysis using Value Stream Mapping (Diagramming Techniques); Product flow / workflow visualization; Identification of additive and non-additive actions; Identifying opportunities to improve processes (Kaizen); Flow synchronization; Reduction of volatility in the supply chain; Techniques for problem solving in the process (problem definition, information gathering, identification of alternatives, assessment of variants and selection of the best solution, evaluation of activities); Identification of process improvement capabilities (value stream mapping, Six Sigma)

Didactic methods

In lectures:

- 1. Information lecture
- 2. Conversational lecture

In the field of self-employment:

1. Working with a book

In the scope of exercises:

- 1. Exercise method case method
- 2. Demonstration method
- 3. Guided text method
- 4. Simulation method
- 5. Discussion

Basic bibliography:

- 1. Zarządzanie łańcuchami dostaw, Ciesielski M., PWE, Warszawa, 2011
- 2. Strategie łańcuchów dostaw, Ciesielski M., Długosz J., PWE, Warszawa, 2010
- 3. Zarządzanie łańcuchem dostaw. Koncepcje procedury ? doświadczenia, Witkowski J., PWE, Warszawa, 2010
- 4. Ciesielski M., Zarządzanie łańcuchami dostaw, PWE, Warszawa, 2011
- 5. Ciesielski M., Długosz J., Strategie łańcuchów dostaw, PWE, Warszawa, 2010
- 6. Witkowski J., Zarządzanie łańcuchem dostaw. Koncepcje procedury ? doświadczenia, PWE, Warszawa, 2010
- 7. Awasthi A., Grzybowska K., Barriers of the supply chain integration process , Logistics Operations, Supply Chain Management and Sustainability, P. Golinska (ed.) Springer International Publishing, pp. 15-30, 2014, DOI: 10.1007/978-3-319-07287-6_2
- 8. Grzybowska K., Modele referencyjne wybranych mechanizmów koordynacji działań w łańcuchu dostaw, Logistyka Nr 3, s. 5660-5664, 2015

Additional bibliography:

- 1. Grzybowska K., KOORDYNACJA SYNTETYCZNA DYREKTYWA SPRAWNEGO DZIAŁANIA SYSTEMÓW ZŁOŻONYCH WYBRANE ASPEKTY, Nauki o Zarządzaniu, 3 (28)/2016, s. 30-39, 2016
- 2. Grzybowska K., Koopetycja współczesna forma współpracy w łańcuchu dostaw, Logistyka nr 6/2011, s. 32-34, 2011

Result of average student's workload	
Activity	Time (working hours)

Poznan University of Technology Faculty of Engineering Management

1. Lectures		14				
2. Participation in exercises	14					
3. Consultations	42					
4. Prepare for Training	20					
5. Preparing to pass exercises	5					
6. Assessment of lectures	3					
7. Discussion of the results of assessment of lectures	2					
Student's workload						
Source of workload	hours	ECTS				
Total workload	100	4				
Contact hours	80	3				
Practical activities	14	1				