Faculty of Engineering Management

STUDY MODULE DESCRIPTION FORM								
Name of the module/subject						Code 011102321011117936		
Field of study				Profile of study (general academic, practical)		Year /Semester		
Logistics - Full-time studies - Second-cycle				(brak)		1/2		
Elective path/specialty Chain of Delivery Logistics				Subject offered in: Polish		Course (compulsory, elective) elective		
Cycle of study:				Form of study (full-time,part-time)				
Second-cycle studies			full-time					
No. of hours						No. of credits		
Lecture: 30	Classe	s: - Laboratory: -		Project/seminars:	30	5		
Status of the cours	se in the study	program (Basic, major, other)		university-wide, from another	field)			
(brak)				(brak)				
Education areas a	nd fields of sci	ence and art				ECTS distribution (number and %)		
Responsible for subject / lecturer: Responsible for subject / lecturer:						lecturer:		
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Prerequisites in terms of knowledge, skills and social competencies:								
1 Know	rledge	 Student knows the basic logistical issues such as functional separation of logistics, the essence of customer service, the nature of transport and storage logistics. Student knows the basic concepts of inventory management: EOQ, SL, ROP, the maximum level of inventories. 						
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 Socia comp	ıl etencies	Student can work in group						
Assumptions and objectives of the course:								

Main objective is to familiarize students with in-depth inventory management problems in terms of demand and the dependent and independent skills training in their operational decisions on renewal of stocks in the supply chain.

Study outcomes and reference to the educational results for a field of study

Knowledge:

- 1. The student has a deeper knowledge of inventory management [K2A_W02;K2A_W03]
- 2. Student can identify and articulate the relationship between inventory, storage, transport and other functional areas of logistics, supply łańcuhca [K2A_W08;K2A_W09]
- 3. Student recognizes inventory management techniques used in supply chains [K2A_W12;K2A_W13]

Skills:

- 1. Students can design a process to analyze the efficiency of inventory management in supply chain [K2A_U05;K2A_U09]
- 2. Student is able to define the reorder of stocks problem in a supply chain [K2A_U04]
- 3. Student can use a spreadsheet with a simple algorithm to design a restoration of stocks in a single link of the supply chain [K2A_U17;K2A_U19]

Social competencies:

- 1. Student is prepared to help and cooperate in the project group [K2A_K03]
- 2. The student is responsible for the identification and resolution of the dilemmas associated with inventory management [K2A_K03]
- 3. The student is determined to think in an entrepreneurial way of inventory management [K2A_K03]

Assessment methods of study outcomes

Faculty of Engineering Management

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: Conversational lecture, 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	15
2. Project	40
3. Lectures	30
4. Classes	30
5. Consultations	10

Student's workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	70	3
Practical activities	55	2