STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Operational management in logistics		**1011101331011112835**

Field of study	Profile of study (general academic, practical)	Year /Semester
Logistics - Full-time studies - First-cycle studies	**general academic**	**2 / 3**
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
-	**Polish**	**obligatory**

Cycle of study:	Form of study (full-time,part-time)
First-cycle studies	**full-time**

No. of hours				No. of credits
Lecture: **15**	Classes: **15**	Laboratory: **-**	Project/seminars: **-**	**4**

Status of the course in the study program (Basic, major, other)	(university-wide, from another field)
other	**university-wide**

Education areas and fields of science and art	ECTS distribution (number and %)
technical sciences	**4 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	has a basic knowledge of management and organizational processes, including logistics processes, identify the stages of material flow in the enterprise
2	**Skills**	able to identify the stages of material flow in the enterprise
3	**Social competencies**	there is no indication

Assumptions and objectives of the course:

-introduce students with the problems of operational management in logistics processes,
- to develop skills in operating (current) management of logistics processes in the enterprise

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

Knowledge:

1. knows the basic dependencies in logistics and operational management in logistics - [K1A_W14]
2. can explain basic concepts in logistics and operational management in logistics - [K1A_W15]
3. can recognize basic phenomena characteristic for logistics and operational management in logistics - [K1A_W16]
4. can explain in detail the characteristic concepts for logistics and operational management in logistics - [K1A_W17]
5. knows how to formulate basic dependencies within operational management in logistics - [K1A_W18]
6. can identify current trends in logistics and operational management in logistics - [K1A_W19]
7. can characterize best practices in operational management in logistics - [K1A_W20]

Skills:

1. can search based on literature of the subject and other sources and in an orderly manner present information on the problem within the framework of logistics and operational management in logistics - [K1A_K01]
2. is able to present the problem within the framework of logistics and operational management in logistics - [K1A_K02]
3. is able to independently develop a set, within the framework and operational management in logistics problem - [K1A_U05]
4. can formulate using analytical, simulation or experimental methods within the framework of and operational management in logistics design task and solve this task - [K1A_U09]
5. is able to assess economically the chosen problem within the framework of logistics and operational management in logistics - [K1A_U12]
6. can perform critical analysis on the problem within the framework of logistics and operational management - [K1A_U13]
7. can design using the appropriate methods and techniques of an object, system, or process that meets the requirements of operational management in logistics - [K1A_U16]
Social competencies:
1. is sensitive to the effects of non-technical aspects and engineering activities, including its impact on the environment, and the related responsibility for decisions in operational management in logistics - [K1A_K02]
2. can correctly identify and resolve the dilemmas connected with performing the profession of logistics - [K1A_K05]
3. knows the typical engineering technologies in logistics and operational management in logistics - [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

1. logistics system; Process management; Flow and synchronization

2. Mapping operational processes of logistics (mapping methods - algorithms, IDEF); Flowchart technique; Defining symbols; Visualization of work flow; Identify actions that add and add values; Identification of opportunities for improvement (Kaizen)

3. Flow mapping; Vulnerability analysis of current activities and necessary functions; Demand change buffer; forecast and plan; flow and synchronization; Identify, track, and implement key performance indicators (KPIs); Identification of process improvement opportunities (DMAIC; PDCA);

4. Analysis using mapping techniques; Identifying opportunities to improve processes;

5. Identification of errors in algorithms and schemes and correct algorithms;

6. Elaboration of algorithm of selected process - elaboration of procedure;

7. Process maps according to IDEF methodology;

8. Algorithms of selected activities; Troubleshooting Techniques (Processes: Defining a Problem, Gathering Information, Identifying Alternatives, Assessing Opportunities and Choosing the Best Option, Taking Action, Assessing Activities, Mapping Value Streams

9. Process management and change management; Implementation of the organized communication process; Project change and management (project methodology during project management: methods and processes); Optimization of the new process; Supply chain analysis using value stream mapping

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. The exercise method? case method

2. Demonstration method

3. Guided text method

4. Simulation method

5. Discussion in the form of a round table

Basic bibliography:

1. Waters D., Zarządzanie operacyjne, PWN, Warszawa, 2007

2. Bardi E.J., Coyle J.J., Langley C.J., Zarządzanie logistyczne, PWE, Warszawa, 2002

3. Grzybowska K., Łopatowska J., Zarządzanie operacyjne w łańcuchu dostaw, L. Zawadzka, G. Zieliński (red.), Zarządzanie operacyjne w teorii i praktyce, Systemy, procesy, narzędzia,Wydawnictwo Politechniki Gdańskiej, Gdańsk, 2013

4. Jasiński Z. (red.), Podstawy zarządzania operacyjnego, Wolters Kluwer, Gliwice, 2010

5. Szczepańska K.,Bugdol M. (red.), Podstawy zarządzania procesami, Difin, Warszawa, 2016

Additional bibliography:

1. Kisperska-Moroń, Krzyżaniak S. (red.), Logistyka, Biblioteka Logistyka, Poznań, 2009

2. Bitkowska A., Zarządzanie procesowe we współczesnych organizacjach, Difin, Warszawa, 2013

Result of average student's workload

Activity	Time (working hours)
1. Lectures	15
2. Participation in exercises	15
3. Consultations	40
4. Prepare for exercise	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	75	3
Practical activities	15	1