STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Logistics process planning		**1011104461011112978**
Field of study: **Logistics - Part-time studies - First-cycle**	Profile of study (general academic, practical): **general academic**	Year /Semester: **3 / 6**
Elective path/specialty: **-**	Subject offered in: **Polish**	Course (compulsory, elective): **obligatory**
Cycle of study: **First-cycle studies**	Form of study (full-time,part-time): **part-time**	
No. of hours: Lecture: **-** Classes: **-** Laboratory: **-** Project/seminars: **16**		No. of credits: **4**
Status of the course in the study program (Basic, major, other): **other**	(university-wide, from another field): **university-wide**	
Education areas and fields of science and art		ECTS distribution (number and %)

Responsible for subject / lecturer:

dr hab. inż. Paweł Pawlewski
email: pawel.pawlewski@put.poznan.pl
tel. 61 6653413
Wydział Inżynierii Zarządzania
ul. Strzelecka 11 60-965 Poznań

Responsible for subject / lecturer:

dr hab. inż. Paweł Pawlewski
email: pawel.pawlewski@put.poznan.pl
tel. 61 6653413
Faculty of Engineering Management
ul. Strzelecka 11 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Student knows the basic concepts of the fundamentals of management, logistics bases, basic computer, basic inventory management, basic operational and supply chain understand the mechanisms of management,
2	**Skills**	Student has the ability to perceive, to associate and interpret phenomena in organizations can take advantage of the fundamental technologies for the management
3	**Social competencies**	Student is aware of the consequences of their decisions and is prepared to take on social responsibility for decisions

Assumptions and objectives of the course:

Obtain the skills and competencies in the design of logistics processes and management.

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

Knowledge:

1. Student can define the purpose and scope, which includes the design of logistics processes, know how to identify basic relations existing in the design process - [K1A_W14]
2. Student is able to explain the basic concepts, including the design of logistics processes - [K1A_W15]
3. Student is able to recognize the basic phenomena, including process design - [K1A_W16]
4. Has knowledge of available simulation packages - [K1A_W17]
5. Has knowledge of the methods and techniques of process improvement - [K1A_W18]
6. He has knowledge of modern trends in process design - [K1A_W19]
7. Knows the concept design review processes using simulation experiments - [K1A_W20]
8. has a basic knowledge of the life cycle of socio-technical systems (logistic systems) - [K1A_W21]
9. He knows the process mapping tools - [K1A_W23]

Skills:

1. can search based on the literature of the subject and other sources and in an orderly way present information about the problem within the framework of logistics and its specific issues. - [K1A_U01]

2. can present the problem within the framework of logistics and its specific issues (inventory management, distribution logistics, production and supply logistics, operations logistics, environmental management) and supply chain management. - [K1A_U02]

3. . Can design process analysis in the consideration of the problem and formulate the problem as a task object design (engineering). - [K1A_U05]

4. Can identify the attributes of processes and select the correct meters processes for the future management - [K1A_U08]

5. Can analyze and assess the scope and need for simulation techniques in the design of logistics processes and to interpret and verify the results obtained from simulation experiments - [K1A_U09]

6. is able to assess economically the chosen problem, within the framework of logistics and its specific issues (inventory management, distribution logistics, production and supply logistics - [K1A_U12]

7. can perform critical analysis on the logistics problem and its specific issues (inventory management, distribution logistics, production and supply logistics - [K1A_U13]

8. Can choose the appropriate tools and methods to solve the problem of logistics processes and design using appropriate methods and techniques of the logistical process - [K1A_U16]

Social competencies:

1. Student is willing to cooperate and work in groups on problems related to the design of logistics processes - [K1A_K03]

2. knows typical engineering technologies in the area of logistics and its specific issues; among others such as: balance sheet method, supply chain accounting methods in supply, production and distribution, stock calculation methods, material requirements planning methodology - [KInzA_W05]

Assessment methods of study outcomes

- Examination + Credit simulation project performed in the laboratory, credit of project made in the enterprise

Course description

- Orientation functional and process in business management. Process approach. Definition and classification of generic processes. Models and standardization of processes. Process mapping. Designing and implementing process changes. Methods and techniques of process improvement. Managing processes. The nature and objectives of management processes. Methodology for process management. The implementation of the process approach in the company. Forms of organization of the process in the company. Methodology for process management.

Basic bibliography:

1. Logistics An Introduction to Supply Chain Management, Waters. D., Palgrave Macmillan, 2003

2. Reengineering, Reformowanie procesów biznesowych w przedsiębiorstwie,, Pacholski, L., Cempel, W., Pawlewski P., WPP, Poznań, 2009

3. Procesy i projekty logistyczne, Nowosielski S. (red.) , Wyd.UE , Wrocław, 2008

4. Budowa modelu przepływu procesu, (skrypt elektr.) , Pawlewski P., IIZ Poznań 2009

5. Beaverstock M., Greenwood A., Lavery E., Nordgren W. Applied Simulation, Flexsim Software Products, 2011

6. Wróbel G. Podstawy symulacji Flexsim 5, Materiały szkoleniowe, Cempel Consulting 2012

7. Zarządzanie logistyczne, Coyle J.J., Bardi E.J.,Langley Jr.C.J., PWE, 2002

Additional bibliography:

1. Wprowadzenie do zarządzania operacjami i łańcuchem dostaw, Bozarth, C., Handfield, R.B., Helion, 2007

Result of average student's workload

Activity	Time (working hours)
1. project	16
2. consultation	15
3. preparing for class	15
4. independent student work	34
5. project evaluation	20

Student's workload

Source of workload	hours	ECTS
Total workload	100	4
Contact hours	31	3

Practical activities	30	1