Faculty of Engineering Management

		STUDY MODULE D	ESC	RIPTION FORM			
Name of the module/subject						Code 1011102311011117636	
Field of	,			Profile of study (general academic, practical	,	Year /Semester	
Logi	stics - Full-time	studies - Second-cycle		general academic	C	1/1	
Elective path/specialty Corporate Logistics				Subject offered in: Polish		Course (compulsory, elective) obligatory	
Cycle of	f study:		Form	of study (full-time,part-time	e)		
Second-cycle studies				full-time			
No. of h	ours		1			No. of credits	
Lectur	e: 15 Classe	s: - Laboratory: 15	5 F	Project/seminars:	15	4	
Status c	of the course in the study	program (Basic, major, other)		niversity-wide, from anothe	r field)		
other university-wide						ity-wide	
Education areas and fields of science and art						ECTS distribution (number and %)	
technical sciences						4 100%	
Resp	onsible for subj	ect / lecturer:	Res	sponsible for subj	ect /	lecturer:	
dr h	ab. inż. Paweł Pawley	vski	d	dr hab. inż. Paweł Pawlewski			
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Prere	equisites in term	ns of knowledge, skills an	nd so	cial competencies	S :		
1	Knowledge	Student has knowledge of the use in the design of logistics processes enterprise integration methods, simulation technology, methods to streamline and improve the process, is aware of the available simulation packages, knows the concepts of verification processes using simulation experiments, has knowledge of the methods and techniques of process improvement					
2	Skills	Student is able to assess the level of maturity of the business process, is able to analyze and assess the scope and need for the use of simulation techniques in the design of logistics processes and to interpret and verify the results obtained from the simulation process					
3	Social competencies	Student is aware of the consequences of their decisions and is prepared to take on social responsibility for decisions					
Assu	mptions and ob	ectives of the course:					

-acquisition of skills and competences in the field of enterprise logistics system design, understanding the basic methods used in the design of logistic systems, business process design and management

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

Knowledge:

- 1. Student can identify a specific problem belonging to the area of the design of logistics processes [K2A_W09]
- 2. Understanding of process mapping and process orientation in logistics [K2A_W10]
- 3. Student knows the systems and their basic functions used in the design process of logistics systems [K2A_W12]
- 4. Student knows the trends in the development of the logistics process simulation tools [K2A_W16]
- 5. Basic knowledge of the life cycle of machinery, socio-technical systems, industrial products [K2A_W19]
- 6. Student knows the basic methods, techniques, depending on the applicable in solving complex engineering tasks in the field of logistics and know how to explain them [K2A_W13]

Skille:

- 1. Able to independently develop a given problem in the design of logistics processes [K2A_U11]
- 2. Can design an experiment for the given problem in the field of logistics and related areas, interpret the results and draw conclusions [K2A_U08]
- 3. Can design a process to analyze, formulate a research task, propose the use of the latest technological advances and technology for the design [K2A_U19]
- 4. Can design using appropriate methods and techniques of the system and the logistical process [K2A_U09]
- 5. Can formulate and solve problems through multi-disciplinary integration of knowledge in the fields and disciplines used in the design of logistic systems [K2A_U10]

Social competencies:

- 1. Has a sense of responsibility for their own work and the willingness to comply with the rules work in a team and to take responsibility for collaborative tasks [K2A_K03]
- 2. Can see depending on cause and effect in achieving the set goals and achieve graduation importance of alternative or competing tasks [K2A_K04]

Assessment methods of study outcomes

472/5000

Forming rating:

- in the area of lectures presence and activity during didactic classes
- in the area of laboratories discussion of the implemented model
- in the area of projects discussion of the implemented project

Summary rating:

- in the area of lectures exam discussion of project results, written exam 5 questions, 25 points max. from 13
- in the area of laboratories presentation and passing the simulation model
- in the area of projects presentation and passing the project

Course description

Logistics-System approach. Design of the logistics system. The methods used in the design of logistic systems. Orientation functional and process in business management. Process approach in logistics. Models and standardization of processes. Process mapping. Designing and implementing process changes. The implementation of the process approach in the company. Forms of organization of the process in the company. Methodology for process management. Attributes (parameters) of the process, measures of process in the context of enterprise logistics system and supply chain processes meters based process management. The life cycle of the process. Execution and financial aspects - management objectives, resource efficiency. Measuring the effectiveness and efficiency. Simulation and optimization.

Teaching methods:

- lectures information lecture (conventional) or monographic (specialist),
- laboratories self-carried out experiments by students,
- projects individual or team projects implementation of a large, multi-stage project cognitive or practical task.

Basic bibliography:

- 1. Procesy i projekty logistyczne, S. Nowosielski, Uniwersytet Ekonomiczny, Wrocław 2008
- 2. Reengineering, Reformowanie procesów biznesowych i produkcyjnych w przedsiębiorstwie, L. Pacholski, W. Cempel, P. Pawlewski, Politechnika Poznańska, Poznań 2009
- 3. Organizacja procesowa, P.Grajewski, PWE, Warszawa 2007
- 4. Modele referencyjne w zarządzaniu procesami biznesu, Difin, Warszawa 2007
- 5. Teoria i inżynieria systemów, Cz. Cempel, Instytut Technologii Eksploatacji PIB/2008
- 6. Projektowanie Systemów I Procesów Logistycznych, P.Pawlewski, Skrypt (maszynopis) Poznan 2012

Additional bibliography:

- 1. Zarządzanie logistyczne, J. Coyle, E. Bard, J. Langley, PWE, 2002
- 2. Systemy logistyczne, H. C. Pfohl, Wyd. ILiM, Poznań, 2001
- 3. Wprowadzenie do zarządzania operacjami i łańcuchem dostaw, C.Bozarth, R.B.Handfield, Helion, Gliwice 2007
- 4. Supply Chain Management An introduction to Logistics, D.Waters, Palgrave Macmilian 2009

Result of average student's workload

Activity	Time (working hours)
1. Lectures	15
2. Laboratory	15
3. Projects	15
4. Own work	30
5. Consultation	25

Student's workload

		1
Source of workload	hours	ECTS

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

Poznan University of Technology Faculty of Engineering Management

Total workload	100	4
Contact hours	75	3
Practical activities	30	2