STUDY MODULE DESCRIPTION FORM						
	f the module/subject anina of loaistic	s systems & processes	Code 1011102411011117636			
Field of study			Profile of study	Year /Semester		
Logistics - Full-time studies - Second-cycle			(general academic, practical general academic			
Elective path/specialty			Subject offered in:	Course (compulsory, elective)		
Corporate Logistics			Polish	obligatory		
Cycle of						
	Second-c	ycle studies	full-time			
No. of hours				No. of credits		
Lecture: 15 Classes: - Laboratory: 15			Project/seminars:	15 4		
Status c	Status of the course in the study program (Basic, major, other) (university-wide, from another field)					
		other	univo	ersity-wide		
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
technical sciences				4 100%		
Resp	onsible for subje	ect / lecturer:	Responsible for subje	ct / lecturer:		
dr h	ab. inż. Paweł Pawlew	vski	dr hab. inż. Paweł Pawlew	ski		
email: pawel.pawlewski@put.poznan.pl			email: pawel.pawlewski@put.poznan.pl			
	61 6653413 ulty of Engineering Ma	anagement	tel. 61 6653413 Wydział Inżynierii Zarządzania			
Faculty of Engineering ManagementWydział Inżynierii Zarządzaniaul. Strzelecka 11 60-965 Poznańul. Strzelecka 11 60-965 Poznań						
Prerequisites in terms of knowledge, skills and social competencies:						
1	Knowledge	methods, simulation technology, the available simulation package	use in the design of logistics processes enterprise integration gy, methods to streamline and improve the process, is aware of ges, knows the concepts of verification processes using nowledge of the methods and techniques of process			
2	Skills	assess the scope and need for th	vel of maturity of the business process, is able to analyze and the use of simulation techniques in the design of logistics verify the results obtained from the simulation process			
3	Social competencies	Student is aware of the conseque responsibility for decisions	ences of their decisions and is prepared to take on social			
Assu	mptions and obj	ectives of the course:				
		petences in the field of enterprise ms, business process design and		standing the basic methods used		
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. Und	erstanding of process	mapping and process orientation i	n 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]						
	0	e cycle of machinery, socio-technic		• - •		
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]						
Skills	5:					
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

Examination + Credit simulation project performed in the laboratory

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.

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)			
Student's workload				
Source of workload	hours	ECTS		
Total workload	100	4		
Contact hours	55	3		
Practical activities	30	2		