		STUDY MODULE DE	ESCRIPTION FORM				
	f the module/subject gning of logistic	s systems & processes	Code 1011102211011117636				
Field of	study		Profile of study		Year /Semester		
Logistics - Full-time studies - Second-cycle			(general academic, practical) (brak)	)	1/1		
Elective path/specialty			Subject offered in:		Course (compulsory, elective)		
Chain of Delivery Logistics			Polish		obligatory		
Cycle of	f study:		Form of study (full-time,part-time)				
	Second-c	ycle studies	full-time				
No. of h	ours				No. of credits		
Lectur	re: 15 Classes	s: - Laboratory: 15	Project/seminars:	15	4		
Status o	-	program (Basic, major, other)	(university-wide, from another				
		(brak)	(brak)				
Educati	on areas and fields of sci	ence and art			ECTS distribution (number and %)		
technical sciences					100 4%		
Responsible for subject / lecturer:							
dr inż. Paweł Pawlewski							
	ail: pawel.pawlewski@	put.poznan.pl					
tel. 61 6653413 Wydział Inżynierii Zarządzania							
-	Strzelecka 11 60-965 F						
Prere	equisites in term	s of knowledge, skills and	d social competencies:	:			
1	Knowledge	Student has knowledge of the use in the design of logistics processes enterprise integration					
1	Knowledge	the available simulation package	, methods to streamline and improve the process, is aware of es, knows the concepts of verification processes using owledge of the methods and techniques of process				
2	Skills	Student is able to assess the leve assess the scope and need for the processes and to interpret and ve	ne use of simulation technique	s in t	the design of logistics		
3	Social competencies	Student is aware of the conseque responsibility for decisions	ences of their decisions and is	prep	pared to take on social		
Assu	-	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							
Knov	vledge:						
	, ,	cific problem belonging to the area	0 0 1	esse	es - [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]							
Skills:							
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]						
rue des	sign of logistic systems	s - [r\2A_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	75	3		
Practical activities	30	2		