		STUDY MODULE DI	ESCRIPTION FORM		
	f the module/subject <b>anina of loaistic</b>	s systems & processes	Code 1011105411011117636		
Field of		· · · · · · · · · · · · · · · · · · ·	Profile of study	Year /Semester	
l ogi	stics - Part-time	studies - Second-cycle	(general academic, practical) (brak)	1/1	
Logistics - Part-time studies - Second-cycle Elective path/specialty			Subject offered in:	Course (compulsory, elective)	
Corporate Logistics			Polish	obligatory	
Cycle of	f study:		Form of study (full-time,part-time)		
Second-cycle studies			part-time		
No. of hours				No. of credits	
Lectur	e: 16 Classes	s: - Laboratory: 14	Project/seminars:	- 4	
Status c	of the course in the study	program (Basic, major, other)	(university-wide, from another f	ield)	
		(brak)	(brak)		
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					
Prere	quisites in term	s of knowledge, skills and	d social competencies:		
1	Knowledge	Student has knowledge of the us methods, simulation technology, the available simulation package simulation experiments, has know improvement	methods to streamline and imp s, knows the concepts of verified	prove the process, is aware of cation processes using	
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 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					
Know	/ledge:				
		cific problem belonging to the area	a of the design of logistics proce	esses - [K2A W09]	
<ol> <li>Student can identify a specific problem belonging to the area of the design of logistics processes - [K2A_W09]</li> <li>Understanding of process mapping and process orientation in logistics - [K2A_W10]</li> </ol>					
3. Student knows the systems and their basic functions used in the design process of logistics systems - [K2A_W12]					
4. Stud	lent knows the trends	in the development of the logistics	process simulation tools - [K2	2A_W16]	
	-	e cycle of machinery, socio-technic	•		
		nethods, techniques, depending or w to explain them - [K2A_W13]	n the applicable in solving com	plex engineering tasks in the	
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]					
	design a process to a logy for the design	nalyze, formulate a research task, [K2A_U19]	propose the use of the latest to	echnological advances and	
5. Can		ate methods and techniques of the roblems through multi-disciplinary s - [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	75	3		
Practical activities	30	2		