Name of the modulescaped Logistics process planning         Code 1011035101111278           Field of study         Pratile of study (brain)         Year /Semeater 2,15           Elective path/specially         -         Dobigstory         3,15           Elective path/specially         -         Dobigstory         3,15           Statiget of field in the yr Polish         Course (computer, pack lective) Dobigstory         Obigstory           Cycle of study:         First-cycle studies         full-time         Intermediance Sites         Full-time           No. of nows         Classes:         -         Laboratory:         15         Project/seminars:         5           Status of the course in the study program (Baiac, major, other)         (university-wide, from another field)         (brack)           Education areas and fields of science and at         ECT5 distribution (number and 5,3)         ECT5 distribution (number and 5,3)           I is fight context and pawlewski email: pawle pawlewski@put, poznan.pl tot. (61) 6635413         Grade to course in the study in participation (in the participation of the fundamentals of management u. Strzeteck in 10-0955 Poznan           1 Knowledge         Student knows the basic concepts in the fundamentals of management.         Strzeteck in 10-0955 Poznan           2 Skills         Student knows the basic concepts in color study of the anagement.         Strzeteck in 10-0555 Poznan			STUDY MODULE DE	SCRIPTION FORM				
Logistics - Full-time studies - First-cycle studies         (general academic, practical) (brak)         3 / 5           Elective pathispeciality         -         Polish         Course (compulsary, elective) obligatory           Cycle of study:         First-cycle studies         Form of study (full-time, part-time)         No. of credits           No. of hours         Lecture:         30         Classes:         -         Laboratory:         15         Project/seminars:         5           Status of the course in the study program (Basic, major, other)         (university-wide, from another field)         (brak)           Education areas and fields of science and at         CTS distribution (number and %)         CTS distribution (number and %)           Telesponsible for subject / lecturer:         Responsible for subject / lecturer:         Crease and fields of science and at         CTS distribution (number and %)           I. Strateleck 116 0-965 Poznan         us. Strateleck 116 0-965 Poznan         Us. Strateleck 116 0-965 Poznan         Us. Strateleck 116 0-965 Poznan           1         Knowledge         Student knows the basic concepts of the fundamentals of management.         Us. Strateleck 116 0-965 Poznan           2         Skills         Student knows the basic porceive, to associate and interper phenomena in organizations can take advantage of the fundamental technologies for the management.           2         Skills <t< th=""><th></th><th>,</th><th>anning</th><th></th><th colspan="3"></th></t<>		,	anning					
Elective pathspeciality         Subject offered in: Poils         Course (compulsory, elective) obligatory           Cycle of study;         Form of study (ultilime,paritime)         No. of readits           No. of hours         Lecture:         30         Classes:         -         Laboratory:         15         Project//seminars:         No. of credits         5           Status of the course in the study program (Basic, major, other)         (university-wide, from another filed)         No. of credits         5           Education areas and fields of science and at         Image: Creation (Creation)         (Drak)         CCTS distibution (number and %)           Responsible for subject / lecturer:         Responsible for subject / lecturer:         Creation (Creation)         CCTS distibution (number and %)           Image: Creation (Creation)         U.Strzelecka 1160-965 Poznan         ECTS distibution (number and %)           Prerequisites in terms of knowledge, skills and social competencies:         1         Knowledge         Student knows the basic concepts of the fundamentals of management, U.Strzelecka 1160-965 Poznan           2         Skills         Student knows the basic concepts of the fundamental technologies for the management           2         Skills         Student is aware of the consequences of their decisions and is prepared to take on social responsibility for decisions           2         Skills         Student i	Field of study			(general academic, practical	)			
Cycle of study:         First-cycle studies         Form of study (lul-lime, part-time)           No. of hours         full-time           Lecture:         30         Classes:         -         Laboratory:         15         Project/Seminars:         -         5           Status of the course in the study program (Basic, major, other)         (university-wide, from another field)         (brak)         5           Education areas and fields of science and at         ECTS distribution (number and %)         ECTS distribution (number and %)           Responsible for subject / lecturer:         Responsible for subject / lecturer:         Chab. in:2.Pawel Pawlewski         Chab. in:2.Pawel Pawlewski           email: pawel.pawlewski@put.poznan.pl         tcl. (61) 6653413         U. (61) 6654313         ECTS distribution (number and %)           Prerequisites         In terms of knowledge, skills and social competencies:         Student knows the basic concepts of the fundamentals of management, upgatics bases, basic competencies in the distribution for discisons and supply chain understand the mechanisms of management, basic operational and supply chain understand the take advantage of the lundamental technologies for the management.           2         Skills         Student has the ability to perceive, to associate and interpret phenomena in organizations can take advantage of the lundamental technologies for the management.           3         Social competencies         Student has the ability to perceive, to as				Subject offered in:	Course (compulsory, elective)			
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Education areas and fields of science and art       ECTS distribution (number and %)         Responsible for subject / lecturer:       Responsible for subject / lecturer:         dr hab, in2 Pawel Pawlewski       dr hab, in2 Pawel Pawlewski         email: pawel, pawlewski@put, poznan, pl       email: pawel, pawlewski@put, poznan, pl         tel. (61) 6653413       tel. (61) 6653413         Wydzial inżynierii Zarządzania       Faculty of Engineering Management         ul. Strzelecka 11 60-965 Poznań       Faculty of Engineering Management         ul. Strzelecka 11 60-965 Poznań       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:       Othain the skills and competencies in the design of logistics processes and management.         9. Student is able to explain the basic concepts, including the design of logistics processes - [K1A_W15]       Student is able to explain the basic concepts, including the design of logistics processes - [K1A_W15]         9. Student is able to explain the basic concepts, includ	Status o	-		(university-wide, from another	,			
dr hab. inž.Paweł Pawlewski       dr hab. inž.Paweł Pawlewski @put.poznan.pl         email: paweł pawlewski @put.poznan.pl       email: paweł pawlewski @put.poznan.pl         tel. (61) 6653413       Faculty of Engineering Management         ul. Strzelecka 11 60-965 Poznań       ul. Strzelecka 11 60-965 Poznań         Prerequisites in terms of knowledge, skills and social competencies:         1       Knowledge         2       Skills         3       Social competencies         3       Social competencies         3       Student knows the basic concepts of the fundamental technologies for the management.         3       Social competencies         Student kas ware 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         Monweldge         1       Student is aware of the includes the design of logistics processes, know how to identify basic relations existing in the design process - [K1A_V14]         2       Study outcomes and reference to the educational results for a field of study         Knowledge       Student is able to recorpit the basic concepts, including the design of logisti					ECTS distribution (number			
email: pawel.pawlewski@put.poznan.pl       email: pawel.pawlewski@put.poznan.pl         tel. (61) 6653413       tel. (61) 6653413         Wydzial Irxynierii Zarządzania       Faculty of Engineering Management         ul. Strzelecka 11 60-965 Poznań       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         Money eduation is able to recognize the basic phenomena, including the design of logistics processes - [K1A_W15]         Student is able to recognize the basic phenomena, including process design - [K1A_W16]         . Student is able to recognize the basic phenomena, including the design of logistics processes	Resp	onsible for subje	ect / lecturer: R	esponsible for subje	ct / lecturer:			
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<ul> <li>6. Knows the concept design review processes using simulation experiments - [K1A_W20]</li> <li>Skills: <ol> <li>Can design process analysis in the consideration of the problem and formulate the problem as a task object design (engineering) [K1A_U05]</li> <li>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]</li> <li>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]</li> <li>Can identify the attributes of processes and select the correct meters processes for the future management - [K1A_U08]</li> </ol> </li> </ul>								
Skills:         1. Can design process analysis in the consideration of the problem and formulate the problem as a task object design (engineering) [K1A_U05]         2. 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]         3. 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]         4. Can identify the attributes of processes and select the correct meters processes for the future management - [K1A_U08]								
<ul> <li>(engineering) [K1A_U05]</li> <li>2. 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]</li> <li>3. 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]</li> <li>4. Can identify the attributes of processes and select the correct meters processes for the future management - [K1A_U08]</li> </ul>								
<ul> <li>and verify the results obtained from simulation experiments - [K1A_U09]</li> <li>3. 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]</li> <li>4. Can identify the attributes of processes and select the correct meters processes for the future management - [K1A_U08]</li> </ul>			sis in the consideration of the proble	m and formulate the probler	n as a task object design			
methods and techniques of the logistical processes - [K1A_U16] 4. Can identify the attributes of processes and select the correct meters processes for the future management - [K1A_U08]								
	methods and techniques of the logistical process - [K1A_U16]							
•				meters processes for the fut	ure management - [K1A_U08]			

1. Student is willing to cooperate and work in groups on problems related to the design of logistics processes - [K1A\_K03] 2. He can see cause-and-effect relationships in the implementation of the set objectives and range an importance tasks during the implementation of projects of simulation - [K1A\_K04]

the implementation of projects of simulation - [K1A_K04]						
Assessment methods of study outcomes						
Forming rating						
a. Laboratory - assessment of the ability to build a simulation model of the logistics process, assessment of the model, evaluation of the report						
b. Lectures - case study on building a model (map) of process flow - evaluation of a report from a case study						
Summary rating						
a. Lectures - written exam in the form of open and closed questions, checking the knowledge gained during the lecture, Forming rating						
a. Laboratory - assessment of the ability to build a simulation model of the logistics process, assessment of the model, evaluation of the report						
b. Lectures - case study on building a model (map) of process flow - evaluation of a report from a case study						
Summary rating						
a. Lectures - written exam in the form of open and closed questions, checking the knowledge gained during the lecture,						
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.						
Teaching methods: informative lecture, laboratory method						
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. Wróbel G. Podstawy symulacji Flexsim 5, Materiały szkoleniowe, Cempel Consulting 2012						
Additional bibliography:						
1. Zarządzanie logistyczne, Coyle J.J., Bardi E.J.,Langley Jr.C.J., PWE, 2002						
2. 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. Lectures		30				
2. Laboratory		15				
3. Consultation		20				
4. Preparing for classes		30				
5. Independent student work		28				
6. exam		2				
Student's workload						
Source of workload	hours	ECTS				

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	67	2
Practical activities	15	1