		STUDY MODULE D	ESC	CRIPTION FORM			
	the module/subject			Code 1011105421011117938			
Field of study Logistics - Part-time studies - Second-cycle				Profile of study (general academic, practical <b>(brak)</b>	)	Year /Semester	
_	path/specialty			Subject offered in: Polish		Course (compulsory, elective)	
Cycle of		f Delivery Logistics	Forr	POIISN n of study (full-time,part-time)	)	elective	
Second-cycle studies				part-time			
No. of h	ours		1			No. of credits	
Lectur	e: 14 Classes	: - Laboratory: -	F	Project/seminars:	14	5	
Status o	Status of the course in the study program (Basic, major, other) (university-wide, from another fiel					-1-)	
		(brak)			(bra		
Educatio	on areas and fields of sci	ence and art				ECTS distribution (number and %)	
Resp	onsible for subje	ect / lecturer:	Re	sponsible for subje	ct /	lecturer:	
	ż. Paulina Golińska-D			dr inż. Agnieszka Stachow			
	iil: paulina.golinska@p 51 6653414	out.poznan.pl	email: agnieszka.stachowiak@put.poznan.pl tel. 61 6653401				
	ulty of Engineering Ma	inagement	Faculty of Engineering Management				
	Strzelecka 11 60-965 F	0		ul. Strzelecka 11 60-965 F	-		
Prere	quisites in term	s of knowledge, skills and	d so	ocial competencies	:		
1	Knowledge	Has structured, theoretically founded general knowledge covering key issues in logistics					
2	Skills	Is able to formulate and solve engineering tasks and simple research problems analytical methods, simulation and experimental					
3	Social competencies	Is able to interact and work in a group, taking the different roles					
Assu	-	ectives of the course:					
-To tea	ch students with the p	urposes and principles of the essources used in this field.	ence	of the system of reverse	logis	tics. Familiarize students	
	Study outco	mes and reference to the	edu	ucational results for	r a f	ield of study	
Know	/ledge:						
1. has	thorough knowledge	of management and its linkages w	ith re	everse logistics - [K2A_W	03]		
2. has	2. has thorough knowledge of manufacturing engineering and its relations with reverse logistics - [K2A_W05]						
3. Knov	ws the basic concepts	and methods of material flow man	nage	ment in the context of rev	erse	logistics - [K2A_W08]	
4. Knov	ws the basic concepts	characteristic to the reverse logis	tics -	- [K2A_W09]			
		e of information systems in the ma	anag	ement of the company - [	K2A_	_W18]	
Skills							
<ol> <li>Can able to design a process of analysis of the phenomenon of falling within the subject being studied - [K2A_U09]</li> <li>Is able to identify possible improvements in the reporting system of logistics - [K2A_U16]</li> </ol>							
		usefulness and limitations appropries reorganization of the reverse log			lve e	ngineering problems	
Socia	I competencies:						
		e of responsibility for their own wo collaborative tasks - [K2A_K03]	ork a	nd the willingness to comp	oly w	ith the rules work in a team	
		Assessment method	ds c	of study outcomes			

#### Forming assesment

a) the project- discussion on solutions that wants to propose in the project b) a lecture on the basis of answers to questions concerning the material discussed in the previous lecture

summary assessment

- of the project a) based on a public presentation of the project results and discussion about them, b) on the basis of the substantive quality of their project

- in a lecture at the public presentation on a given topic and answer questions concerning the material discussed in the lecture

## Course description

-The course will discuss the basic concepts of sustainable development and their impact on the organization of logistics processes. Will be assessed the impact of legislation on the development of reverse logistics is presented life cycle of the product and the method of Life Cycle Assessment (LCA). Will discuss the concept of closed-loop supply chain and reverse logistics role in setting up the supply chain. The task will reverse logistics in the collection of used products and packaging. We present the task of reverse logistics systems, and production of secondary recycling systems. Performed an analysis of selected case studies in the area of reverse logistics: the automotive industry, electronics, appliances.

In the project, students will acquire practical skills in the field of reverse logistics management, in particular, the product life cycle assessment, network design collection of used products, material requirements planning for secondary production and supply chains closed configuration.

### **Basic bibliography:**

- 1. Golinska P. Logistyka zwrotna, Wyd. PP, Poznan 2013
- 2. Szołtysek J. Logistyka zwrotna , ILiM, Poznań 2009

## Additional bibliography:

# Result of average student's workload

Activity	Time (working hours)	
1. reverse logistics system design of a company	30	
2. lecture	14	
3. consultation	6	
4. self -work	20	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	70	5
Contact hours	28	2
Practical activities	42	3