

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Reverse logistics		Code 1011102321011117938
Field of study Logistics - Full-time studies - Second-cycle	Profile of study (general academic, practical) general academic	Year /Semester 1 / 2
Elective path/specialty Chain of Delivery Logistics	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 15 Classes: - Laboratory: - Project/seminars: 30		No. of credits 5
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 5 100% 5 100%
Responsible for subject / lecturer: Agnieszka Stachowiak email: agnieszka.stachowiak@put.poznan.pl tel. 6653401 Engineering Management Strzelecka 11, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Student knows the basic division of logistics systems.
2	Skills	1. Student is able to organize the process of renewing stock. 2. Student can use the basic measures of customer service.
3	Social competencies	Student has a willingness to cooperate in a group.
Assumptions and objectives of the course: The course aims to familiarize students with the theory of distribution channels, the analysis of structures and strategies on trade, defining nature of effective customer service. Students should acquire skills for the application logic of distribution channels in business operations.		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. Student is able to define the essential elements of distribution logistics - [K1A_W14;K1A_W15;K1A_W20] 2. Student is able to identify and formulate the basic relations between production, inventory, warehousing and transportation in the context of distribution logistics - [K1A_W16;K1A_W17;K1A_W18;K1nza_W05] 3. Student knows the historical development of distribution logistics - [K1A_W19]		
Skills: 1. Student can design a process to analyze the efficiency of distribution logistics - [K1A_U01;K1A_U12] 2. Student is able to define the distribution problems as the essential elements of the logistics process - [K1A_U02] 3. Student is able to using a spreadsheet to design simple algorithms necessary for the distribution - [K1A_U04;K1A_U05;K1A_U09]		
Social competencies: 1. The student is prepared to help and cooperate in the project group - [K1A_K03] 2. Student is responsible for the identification and resolution of the dilemmas associated with inventory management - [K1A_K01] 3. The student is determined to think in an entrepreneurial way of distribution logistics - [K1A_K05]		

Assessment methods of study outcomes		
<p>Formative assessment: a) For the classes: on the basis of progress in the implementation stages of the project (created in classes), and knowledge of the issues necessary to carry b) for the lecture: on the basis of answers to questions about the topics covered in previous lectures</p> <p>Recapitulative assessment: a) For the classes: on the basis of (1) the quality of the project (2) answers to questions about the project b) for the lecture: on the basis of colloquium - written work on the issues discussed during the lecture. The exam can be applied after obtaining the ratings of the project and the laboratory. The exam is passed, after giving the correct answers to most questions</p>		
Course description		
<p>The issue of course includes the following topics: the nature and structure of distribution channels, sales? Wholesale and retail trade, price formation in the channels of distribution, logistics management of goods distribution processes, design of distribution channels, cooperation and conflict in channels of distribution. In implementing the course, students will make managerial decisions based on case studies.</p> <p>Teaching methods: Lectures - Information lecture (conventional) or monographic (specialist) forming evaluation, Projects - individual or team projects implementation of a large, multi-stage project cognitive or practical task. forming evaluation</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Michniewska K., Logistyka odzysku w opakowalnictwie, Difin 2013 2. Szołtysek J., Twaróg S., Logistyka zwrotna. Teoria i praktyka, PWE 2016 3. Szołtysek J., Logistyka zwrotna. Reverse logistics, ILIM 4. Logistyka recyklingu zużytego sprzętu elektrycznego i elektronicznego, red. Nowakowski P, Gliwice 2015 		
<p>Additional bibliography:</p> <ol style="list-style-type: none"> 1. Korzeń Z., Ekologistyka, ILIM 2001 2. Rosik-Dulewska C., Podstawy gospodarki odpadami, PWN 2009 3. Stachowiak A., Edwarczyk N., Analiza możliwości zastosowania koncepcji zamkniętej pętli łańcucha dostaw, w: Ekologiczne i ekonomiczne aspekty logistyki, Golińska P. [red.], Wydawnictwo Politechniki Poznańskiej, Poznań 2009 [
Result of average student's workload		
Activity	Time (working hours)	
1. Preparing for the Exam	20	
2. Preparation for the exercise and pass of the project	15	
3. Project realisation	10	
4. Lectures	15	
5. Project consultation	10	
6. Own work	30	
Student's workload		
Source of workload	hours	ECTS
Total workload	125	5
Contact hours	65	3
Practical activities	60	2