



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Reverse logistics [S1Log2>LZ]

### Course

Field of study

Logistics

Year/Semester

3/5

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

### Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

15

Projects/seminars

0

### Number of credit points

2,00

### Coordinators

dr hab. inż. Paulina Golińska-Dawson prof. PP  
paulina.golinska@put.poznan.pl

### Lecturers

### Prerequisites

A student starting this course should have basic knowledge of logistics, logistic processes and their course and knowledge of basic technologies used in production. He or she should also have the ability to acquire information from the indicated sources and be ready to cooperate within a team.

### Course objective

To provide students with basic knowledge of the objectives, essence and principles of reverse logistics. To develop in students the ability to solve problems that arise when managing reverse logistics processes.

### Course-related learning outcomes

Knowledge:

1. Student knows the basic concepts for reverse logistics and its specific issues and reverse supply chain management [P6S\_WG\_05]
2. Student knows the basic relationships existing within the reverse logistics system and its specific issues and reverse supply chain management [P6S\_WK\_04]
3. Student knows basic phenomena and modern trends characteristic of reverse logistics and its specific issues and reverse supply chain management [P6S\_WK\_05]

4. Student knows the best practices within reverse logistics and its specific issues [P6S\_WK\_06]

#### Skills:

1. Student is able to prepare working means necessary for work in the industrial environment and knows the safety rules connected with this work, including safety problems in reverse logistics [P6S\_UW\_05]
2. Student is able to assess and critically analyze from the economic point of view the selected problem within reverse logistics and its specific issues, as well as reverse supply chain process management [P6S\_UW\_06]
3. Student is able to present, using adequate measures, the problem falling within the reverse logistics and its specific issues, and reverse supply chain management [P6S\_UK\_01]

#### Social competences:

1. Student is aware of recognizing the importance of knowledge in the area of reverse logistics and reverse supply chain management in solving cognitive and practical problems [P6S\_KK\_02]
2. Student is aware of initiating activities related to the formulation and transmission of information and interaction in society in the area of reverse logistics [P6S\_KO\_02]
3. Student is aware of the responsible fulfillment, correct identification and resolution of dilemmas related to the logistics profession in the area of reverse logistics [P6S\_KR\_01]
4. Student is aware of the role of cooperation and teamwork in solving problems falling in the scope of reverse logistics and reverse supply chain management [P6S\_KR\_02]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: The knowledge acquired in the lecture is verified by solving 4 problem tasks (15 points each) and a public presentation of a case study analysis of reverse logistics (40 points). Total score is 100 points. Pass mark: 50% of the points.

Exercises: Credit colloquium: open-ended questions and problem tasks and class activity. Pass mark: 50% of the points.

### Programme content

Lecture: Discussion of the essence and role of reverse logistics, characterization of the processes of reverse logistics, and issues concerning the configuration of reverse logistics networks in theoretical terms.  
Exercises: Solving of practical issues of reverse logistics processes and reverse logistics network configuration.

### Course topics

Lecture: Foundations of sustainable development policy and their impact on the development of reverse logistics. The objectives and essence of reverse logistics. Characteristics of reverse logistics processes. Life cycle of the product and scenarios of reuse of products in reverse logistics. Configuration of the recovery network. Integration of physical and information flows in the reverse logistics. Analysis of selected case studies in reverse logistics

Exercises: Students solve problem tasks related to reverse logistics processes and the design of a reverse logistics network according to the guidelines set by the instructor.

### Teaching methods

Lecture: multimedia presentation illustrated with examples and case studies.

Exercises: multimedia presentation illustrated by examples given by the instructor and performing problem tasks given by the instructor - practical exercises.

### Bibliography

#### Basic:

1. Golińska P., Logistyka zwrotna, Wydawnictwo Politechniki Poznańskiej, Poznań 2013.
2. Szołtysek J., Twaróg S., Logistyka zwrotna. Teoria i praktyka, PWE, Warszawa, 2016.

Additional:

1. Nowicka D., Późniak J., Sikora M., Stańko M., Logistyka zwrotna jako instrument przewagi konkurencyjnej przedsiębiorstwa, Systemy Wspomagania w Inżynierii Produkcji, nr 7, 2018.
2. Huk K., Goń A., Pękalska J., Logistyka zwrotów a logistyczna obsługa klienta w procesach sprzedaży realizowanych w e-commerce, Przedsiębiorczość i Zarządzanie, nr 20 (5 - Współczesne trendy w logistyce-kompleksowe zarządzanie), 2019.
3. Huk K., Robaszkiewicz-Ostrega J., Logistyka zwrotów na przykładzie hurtowni farmaceutycznej Neuca-Logistyka sp. z o.o., Prace Naukowe Uniwersytetu Ekonomicznego we Wrocławiu, nr 505), 2018, s. 303-314.
4. Golińska-Dawson P., Logistics operations and management for recycling and reuse, Springer, Chaim, 2020.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	20	1,00