

Polish course name	<b>CENTRA LOGISTYCZNE</b>
English course name	<b>LOGISTICS CENTRES</b>
Course code	<b>WIP-MDL-D1-LC-04</b>
Field of study	<b>Materials design and logistics</b>
Level of qualification	<b>First degree</b>
Form of study	<b>Full-time</b>
Semester	<b>4</b>
Number of ECTS points	<b>2</b>
Ways of assessment	<b>Exam</b>

**Number of hours per semester**

<b>Lecture</b>	<b>Seminar</b>	<b>Classes</b>	<b>Laboratory</b>	<b>Project</b>
15		15		

**TEACHERS:**

Dr inż. Monika Kozerska.

**COURSE OBJECTIVES:**

- › **C1** Students should be familiarized with the main assumptions and the main problems related to the operation of logistics centers.
- › **C2** Acquisition of specialised knowledge and expertise in the field of organisation and operation of logistics centers.

**PRELIMINARY REQUIREMENTS FOR KNOWLEDGE, SKILLS AND OTHER COMPETENCES:**

1. Student has basic knowledge in the field of corporate logistics.
2. Student can represent the main sources of financing for the activities of the company.
3. Student can list and explain the steps of the logistical process.

## **COURSE CONTENT**

### **LECTURE**

- › **L1, L2** Logistics Centers - Introduction to the topic, overview of the definition.
- › **L3, L4** Object and functional area of logistics centres.
- › **L5** Sources of financing for the construction and development of centres in Poland.
- › **L6** The public-private partnership formula as a source of financing for the construction and development of logistics centres in Poland.
- › **L7, L8** The role of the logistics centre in the coordination and consolidation of transport flows.
- › **L9, L10** Explanation of multimodal and intermodal transport - differences.
- › **L11** Logistics centres are a driving force for the development of multimodal transport.
- › **L12, L13** Possibilities of developing inland ports in Poland as logistics centers.
- › **L14, L15** Logistics centers worldwide.

### **CLASSES**

- › **C1 - C4** The nature and role of logistics centres in large supply chains.
- › **C5 - C8** Development trends in logistics centres.
- › **C9 - C14** Development strategies of logistics centres based on examples.
- › **C15** Knowledge check.

### **BASIC REFERENCES**

1. Logistyka, Praca zbiorowa pod red. D. Kisperska-Moroń i S. Krzyżaniaka. Wyd. Instytut Logistyki i Magazynowania, Poznań 2009 r.
2. Skowron-Grabowska B., Centra logistyczne w łańcuchach dostaw, Wyd. PWE, Warszawa 2010 r.
3. Ciesielski M. (red.), Instrumenty zarządzania łańcuchami dostaw. PWE, Warszawa 2009 r.
4. Biesok G., Logistyka usług, Wyd. CeDeWu Sp. z o.o, Warszawa 2013 r.

### **SUPPLEMENTARY REFERENCE MATERIALS**

1. Markusik S., Infrastruktura logistyczna w transporcie tom 1 i tom 2, Wyd. Politechniki Śląskiej 2011 r.

2. Rydzkowski Wł. (red.), Usługi logistyczne, Wyd. Biblioteka Logistyka, Poznań 2012 r.
3. Kozerska, M., Jakość usług logistycznych zewnętrznych usługodawców i ich klientów w zintegrowanym łańcuchu dostaw, Wyd. Politechniki Częstochowskiej, Częstochowa 2019 r.
4. Kozerska M., Najważniejsze centra dystrybucji w kraju i za granicą, Logistyka dystrybucji (red.) Nowakowska-Grunt Joanna, Starostka-Patyk Marta, Wydawnictwa Komunikacji i Łączności 2017 r.
5. Kozerska M., Szczupak L., The Influence of Logistics Centers on the Region Development on the Example of Bełchatów District, Zeszyty Naukowe Politechniki Częstochowskiej. Zarządzanie 2017 r.
6. Fechner I., Centra logistyczne Cel - Realizacja -Przyszłość, Wyd. Biblioteka Logistyka, ILiM, Poznań, 2004 r.

### **LEARNING OUTCOMES**

- › **EU1** Student knows the basic concepts: logistics centers, distribution centers.
- › **EU2** Student knows the classification of logistics centers according to various criteria.
- › **EU3** Student can define the Formula of Public - Private Partnership and list the sources of financing for the construction and development of centers in Poland.

### **TEACHING TOOLS**

- › Multimedia presentations.
- › The study of literature.
- › Case studies/discussion.
- › E-learning platform.

### **WAYS OF ASSESSMENT (F – FORMATIVE, P – SUMMATIVE)**

- › **F1.** Participation of students in discussions.
- › **F2.** Solving case studies.
- › **P1.** Assessment of thematic presentations.
- › **P2.** Assessment of the implementation of tasks included in the curriculum - exam.

## STUDENT WORKLOAD

Form of activity	Number of hours	ECTS
Contact hours with the teacher		
Lectures	15	0,6
Seminar		
Classes	15	0,6
Laboratory		
Project		
Test		
Exam	3	0,12
Total contact hours	33	1,32
Student's own work		
Getting acquainted with the indicated literature	5	0,2
Preparation for seminar		0
Preparation for classes	5	0,2
Preparation for lab		0
Project preparation		0
Consultation	2	0,08
Preparation for the exam	5	0,2
Total student's own work	17	0,68
<b>Total number of hours/ ECTS points for the course</b>	<b>50</b>	<b>2,0</b>

## ADDITIONAL INFORMATION

Timetable of classes	<a href="https://wip.pcz.pl/dla-studentow/plan-">https://wip.pcz.pl/dla-studentow/plan-</a>
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	zajec/studia-stacjonarne
Information about the consultation (time + place)	<a href="https://wip.pcz.pl/dla-studentow/konsultacje-dla-studentow">https://wip.pcz.pl/dla-studentow/konsultacje-dla-studentow</a>

### MATRIX OF LEARNING OUTCOMES REALISATION

Learning outcome	Reference of given outcome to outcomes defined for whole program	Course objectives	Course content	Ways of assessment
EU 1	K_W01, K_W02, K_W06, K_W07, K_W08, K_W09,	C1, C2	L1 - L2, C1 - C12	F1, F2, P1
EU 2	K_W01, K_W02, K_W06, K_W07, K_W08, K_W09, K_K01,	C1, C2	L1 - L9, C3 - C6	F1,F2, P1, P2
EU 3	K_W01, K_W02, K_W06, K_W07, K_W08, K_W09, K_U07, K_U08, K_K01, K_K02, K_K03, K_K04,	C2	L1 - L15, C3 - C15	F1, F2, P1, P2

### FORM OF ASSESSMENT - DETAILS

**EU1** Student knows the basic concepts: logistics centers, distribution centers.

- › 2,0 Student does not know the basic concepts of the subject matter.
- › 3,0 Student partially knows the basic concepts of the subject.
- › 3,5 Student almost knows the basic concepts of the subject.
- › 4,0 Student knows the concepts of the subject well.
- › 4,5 Student has a very good understanding of the subject matter.

- › 5,0 Student knows the basic concepts of the subject very well.

**EU2** Student knows the classification of logistics centers according to various criteria.

- › 2,0 Student does not know the rules of classification of logistics centers.
- › 3,0 Student partially knows the rules of classification of logistics centers.
- › 3,5 Student almost knows the general rules of classification of logistics centers.
- › 4,0 Student knows the general rules of classification of logistics centers well.
- › 4,5 Student knows almost very well the general rules of classification of logistics centers.
- › 5,0 Student knows the general rules of classification of logistics centers very well.

**EU 3** Student can define the Formula of Public-Private Partnership and list the sources of financing for the construction and development of centers in Poland.

- › 2,0 Student is not able to identify the concept of Public - Private.
- › 3,0 Student is able to partially identify the notions of Public - Private.
- › 3,5 Student is almost able to identify the concepts of Public - Private.
- › 4,0 Student is able to define well the concept of Public - Private.
- › 4,5 Student almost very well define the concept of Public - Private.
- › 5,0 Student is very good at defining the concept of Public - Private. He knows the rules for drawing up applications in this area.