COURSE DESCRIPTION CARD - SYLLABUS

Course name

International Logistics

Course

Field of study

Logistics

Area of study (specialization)

Logistics Systems

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

English

Requirements

compulsory

Number of hours

Lecture

30

Laboratory classes

Other (e.g. online)

Tutorials

15

Projects/seminars

15

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

Ph.D., D.Sc., Eng. Jacek Żak, University Professor

Mail to: jacek.zak@put.poznan.pl

Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

Ph.D., Karolina Olejniczak

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Faculty of Engineering Management

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Prerequisites

Student has a basic knowledge in logistics, logistics processes and conditions of global transactions. He/

she is able to identify operations in logistic processes and to relate social and economic phenomena with corporate functioning. The student can manage projects.

Course objective

To familiarize students with the essence of international logistics and the tools used within its scope and the consequences of functioning of global supply chains. Developing the ability to design global / international supply chains / logistics corridors.

Course-related learning outcomes

Knowledge

1. Student knows extended concepts for international logistics and its specific issues and supply chain management [P7S_WG_05]

2. Student knows the detailed methods, tools and techniques characteristic of the studied subject in international logistics [P7S_WK_01]

3. Student knows the conditions for the functioning of companies as participants in international logistics processes and strategies for their functioning [P7S_WK_02]

4. Student knows the best practices in international logistics and its specific issues [P7S_WK_04]

Skills

1.Student is able to assess the usefulness and possibility of using new achievements (techniques and technologies) in international logistics and functionally related areas [P7S_UW_06]

2. Student is able to design, using properly selected means, an experiment, analytical process or scientific research project/ program solving a problem within international logistics and its specific issues as well as supply chain management [P7S_UK_01]

3. Student can prepare in Polish and English, at B2 level of the European System Language Training Description, well documented analysis of international logistics problems [P7S_UK_02]

4. Student is able to formulate and solve tasks through interdisciplinary integration of knowledge in the fields and disciplines used to design logistics systems [P7S_UO_01]

5. Student based on the analysis of their suitability and limitations, student is able to choose, the appropriate tools and methods to solve engineering problems associated with design and/or reorganization of a logistics system within international logistics [P7S_UO_02]

6. Student is able to identify changes in requirements, standards, regulations, technological development and behaviour of the labor market. Based on their recognition he/she is able to determine the needs to extend and enhance his/ her own and others' knowledge within international logistics [P7S_UU_01]

Social competences

1. Student can properly identify and settle dilemas associated with acting as a logistics manager within

international logistics, obeying the rules of professional ethics and respecting diversity of views and cultures [P7S_KK_02]

2. Student can creatively plan and control/ manage business undertakings within international logistics [P7S_KO_01]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: Formative assessment: discussions summarizing individual lectures, giving the student the opportunity to assess the understanding of the problem. Final grade: 45-minute final exam consisting of 20-25 questions (test or open-ended), pass mark: 50%.

Exercises: Formative assessment: assessment of tasks performed during the classes. Final grade: 45-minute written test consisting of 10-15 test or open questions, oral answer, activity during the classes, pass mark: 50%.

Project: Formative assessment: partial assessments of the project implementation progress. Final assessment: project objection, pass mark: 50%.

Programme content

Lecture: The essence of international logistics - basic definitions and characteristics. The importance of contemporary international logistics in business. Global flows in the world and in Europe. International transportation and logistics networks - characteristics of technical logistics infrastructure concerning multimodal transportation/ movement of goods and people (sea, air, road and rail). Characteristics of selected elements of point infrastructure: distribution centers, seaports and airports, border crossing points, car parks around the world and in Europe. Characteristics of selected elements of the linear infrastructure: roads, railways, sea and air connections. Cultural and organizational aspects of international logistics. The client and his diverse requirements and preferences in the world.

Exercises: The impact of logistics on the level of international competitiveness of countries, regions and enterprises. Logistics clusters. Comparative analysis of the Logistics Performance Index (LPI) in selected countries and regions against the background of other economic indicators. Comparison of three types of logistics: market-oriented, crisis-oriented and military-oriented. UN peace-keeping logistics and NATO military logistics. Eurologistics and European logistics policy - goals, conditions and challenges. Legal aspects in international logistics. International conventions and agreements.

Project: Design and assessment of global / international supply chains. Project organization, multi-criteria evaluation of various logistics solutions.

Teaching methods

Lecture: interactive lecture, discussion.

Exercises: discussion, case study, performance of tasks given by the teacher, simulation, reading.

Project: project method.

Bibliography

Basic

1. Gołembska E., Logistyka międzynarodowa, Wydawnictwo Naukowe PWN, Warszawa, 2004.

2. Gołembska E., Majchrzak-Lepczyk J., Bentyn Z., Eurologistyka, Wydawnictwo Naukowe PWN, Warszawa, 2015.

3. Alazzawi A., Żak J., MCDM/A Based Design of Sustainable Logistics Corridors Combined with Suppliers Selection. The Case Study of Freight Movement to Iraq, Transportation Research Procedia, Vol. 47, 2020, s. 577–584.

4. Żak J., The application of the multiple criteria decision making/aiding methodology to evaluation and redesign of logistics systems, Decision Making in Manufacturing and Services, vol. 13, 2019.

Additional

1. Gołembska E., Logistyka w internacjonalizacji przedsiębiorstw UE, Wydawnictwo Akademii Ekonomicznej w Poznaniu, Poznań, 2005.

2. Coyle J.J., Bardi E.J., Langes jr C.J., Zarządzanie logistyczne, PWE, Warszawa, 2002..

3. Olejniczak K., Dębicka A., Logistyka międzynarodowa a uwarunkowania zarządania małymi i średnimi przedsiębiorstwami braży TSL w Polsce. Wybrane zagadnienia, Zeszyty Naukowe Politechniki Poznańskiej, Seria: Organizacja i zarządzanie, nr 83, 2021.

4. Pierre D., International Logistics. The Management of International Trade Operations, Cicero Books, Berea, 2022.

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	60	2,5
Student's own work (literature studies, preparation for tutorials and case discussion, preparation for tests, project preparation) [1]	40	1,5

[1] delete or add other activities as appropriate