

## COURSE GUIDE

<u>Subject name</u>	<b>Innovations in logistics</b>
<u>Course of study</u>	<b>Logistics</b>
<u>The form of study</u>	<b>Full-time</b>
<u>Level of qualification</u>	<b>Second</b>
<u>Year</u>	<b>II</b>
<u>Semester</u>	<b>3</b>
<u>The implementing entity</u>	<b>Department of Logistics and International Management</b>
<u>The person responsible for preparing</u>	<b>Dr inż. Luiza Piersiala</b>
<u>Profile</u>	<b>General academic</b>
<u>ECTS points</u>	<b>2</b>

### TEACHING METHODS – NUMBER OF HOURS PER SEMESTER

LECTURE	CLASS	LABORATORY	PROJECT	SEMINAR
<b>15</b>				

### COURSE AIMS

- C1. Knowledge provided regarding the essence, types and conditions of creation and application innovation methods in logistics science.
- C2. Developing the skills of efficient management of innovative processes in logistics.

### ENTRY REQUIREMENTS FOR KNOWLEDGE, SKILLS AND OTHER COMPETENCES

Student knows basic issues of logistics and management.

Ability to use various sources of information.

The ability to work independently and in a group.

Ability to use online information sources.

### LEARNING OUTCOMES

EU 1- Student has theoretical knowledge about the role of innovations in logistics.

EU2 - Student is able to analyze and identify basic concepts of innovation, distinguish various types of innovation in logistics.

EU 3- The student has the ability to recognize the conditions, principles, methods and techniques of efficient implementation innovation in logistics.

EU 4- Student has the ability to use literature sources to broaden his knowledge.

### COURSE CONTENT

Type of teaching – LECTURES 15 HOURS	No. of hours
L 1- Introduction to the subject of innovations in logistics.	<b>1</b>
L 2-3 – Basic definitions related to innovation in the organization.	<b>2</b>
L 4 – Introduction to modern concepts of logistics, reasons for their development.	<b>1</b>
L 5 – Classification of innovations and the essence of the innovation process.	<b>1</b>
L 6-7 - The need for innovation - an aspect of business competitiveness.	<b>2</b>
L 8 - Internal conditions of innovation.	<b>1</b>
L 9 - Leadership and pro-innovative culture of innovation.	<b>1</b>
L 10-11 - External conditions for creating innovation in logistics.	<b>2</b>
L 12 - Impact of the environment on the transfer of innovation.	<b>1</b>
L 13 - The role of the environment in stimulating innovation of the small and medium sector companies.	<b>1</b>
L 14 - Methods and tools for innovative management in logistics.	<b>1</b>
L15 – Summary test.	<b>1</b>

## TEACHING TOOLS

Books and monographs.  
Audiovisual presentation.  
E-learning platform

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

P1. Final test.

## STUDENT WORKLOAD

Form of activity	Average number of hours for realization of the activity
	[h]
Contact hours with the teacher	15
Preparing to test	10
Getting acquainted with the indicated literature	15
Consultations	10
<b>TOTAL NUMBER OF HOURS / ECTS CREDITS FOR THE COURSE</b>	<b>50 / 2 ECTS</b>

## BASIC AND SUPPLEMENTARY RESOURCE MATERIALS

### Basic resources

P. Voght, *Business Logistics Management*. Cape Town: Oxford University Press Southern Africa, 2017.

R. Lescoart, M. Nowicka-Skowron, *Enterprise, Logistics and Innovations in Knowledge Based Economy*, Arlon : Haute Ecole "Blaise Pascal", 2008.

B. Skowron-Grabowska, *Innovation of Logistics Processes: Monograph*, Ostrava : Vysoka Skola Banska-Technicka, 2014.

### Supplementary resources

L. Piersiala, J. Nowakowska-Grunt, *Rola polityki gospodarczej w rozwoju innowacyjnych przedsiębiorstw*, Economics and Management, nr 3 (6), 2014.

#### Supplementary resources:

L. Piersiala, J. Nowakowska-Grunt, *Rola polityki gospodarczej w rozwoju innowacyjnych przedsiębiorstw*, Economics and Management, nr 3 (6), 2014.

L. Piersiala, *The Innovation Position of Polish Among Selected EU Countries and the Possible Sources of Financing Innovation*, Marketing i Rynek, R.23/10, 2016.

## TEACHERS (NAME, SURNAME, ADRES E-MAIL)

Dr inż. Luiza Piersiala luiza.piersiala@wz.pcz.pl

## MATRIX OF LEARNING OUTCOMES REALISATION

Learning outcome	Reference of given outcome to outcomes defined for whole program (PRK)	Course aims	Course content	Teaching tools	Ways of assessment
EU1	K_W02, K_W06, K_U06, K_K05	C1, C2	L1-3	1,2	P1
EU2	K_W06, K_U06, K_U12, K_K06	C1, C2	L4-8, L14	1,2	P1
EU3	K_W02, K_W06, K_U06, K_K05	C1, C2	L9-13	1,2	P1
EU4	K_W06, K_U06, K_U05, K_K06	C1, C2	L1-15	1,2	P1

## FORM OF ASSESSMENT - DETAILS

	grade 2	grade 3	grade 4	grade 5
EU1	The student has not theoretical knowledge about the role of innovations in logistics.	The student has very little theoretical knowledge of the role of innovations in logistics.	Student has theoretical knowledge about the role of innovations in logistics.	The student has mastered the theoretical knowledge of the role of innovations in logistics and can express his opinion about it.
EU2	Student is not able to analyze and identify basic concepts of innovation, distinguish various types of innovation in logistics.	Student is able to identify basic concepts of innovation, distinguish various types of innovation in logistics.	Student is able to analyze and identify basic concepts of innovation, distinguish various types of innovation in logistics.	Student is able to analyze and identify basic concepts of innovation, distinguish various types of innovation in logistics and comment result of the analyzes.
EU3	Student does not have the ability to recognize the conditions, principles, methods and techniques of efficient implementation innovation in logistics.	Student has the ability to recognize the conditions, principles, or classify only a few basic types of methods and techniques of efficient implementation innovation in logistics.	Student has the ability to recognize the conditions, principles and classify chosen basic methods and techniques of efficient implementation innovation in logistics.	Student has the ability to recognize the conditions, principles, methods and techniques of efficient implementation innovation in logistics.
EU4	Student does not have the ability to use literature sources to broaden his knowledge.	Student has the ability to literature sources use indicated by the teacher.	Student alone looks for additional literature sources in order to broaden his knowledge.	Student deepens his knowledge by searching for additional literature sources, is able to compare information contained in them, can draw conclusions from them.

## ADDITIONAL USEFUL INFORMATION ABOUT THE COURSE

Information where presentation of classes, instruction, subjects of seminars can be found, etc. - presented to students during first classes, if required by the formula classes are sent electronically to the e-mail addresses of individual dean groups.

Information about the place of classes - Information can be found on the website of the Faculty of Management.

Information about the timing of classes (day of the week / time) - Information can be found on the website of the Faculty of Management

Information about the consultation (time + place) - Information can be found on the website of the Faculty of Management