



MODULE DESCRIPTION

Module code	full-time studies:	Z-ZIP1-E-606
	part-time studies:	Z-ZIPN1-E-606
Module name	Logistics	
Module name in Polish	Logistyka	
Valid from academic year	2019/2020	

MODULE PLACEMENT IN THE SYLLABUS

Field of study	MANAGEMENT AND PRODUCTION ENGINEERING
Level of education	1st degree
Studies profile	General
Form and method of conducting classes	Full-time and Part-time
Specialisation	All
Unit conducting the module	Department of Production Engineering
Module co-ordinator	Paweł R. Kozubek, PhD Sławomir Luściński, PhD
Approved by:	Dariusz Bojczuk, PhD, DSc

MODULE OVERVIEW

Type of subject / group of subjects	Major
Module status	Compulsory
Language of conducting classes	English
Module placement in the syllabus - semester	Semester VI
Initial requirements	No requirements
Examination (YES/NO)	YES
Number of ECTS credit points	4

Method of conducting classes		Lecture	Classes	Laboratory	Project	Other
Per semester	full-time studies:	30	15			
	part-time studies:	18	9			

TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Category	Symbol	Learning outcomes	Assignations to the directional learning out-comes
Knowledge	W01	A student has knowledge as regards basic concepts concerning logistics, logistics systems, logistics chains, stock control, production and distribution; a student also understands its sources as regards the related scientific disciplines.	ZIP1_W01 ZIP1_W09 ZIP1_W14
	W02	A student has knowledge as regards the following: managing the flow of goods and products within a logistics channel; designing logistics systems; computer support for logistics systems.	ZIP1_W14
	W03	A student has basic knowledge as regards supply logistics, production, and distribution.	ZIP1_W14 ZIP1_W15
Skills	U01	A student is able to apply basic methods of inventory management in an enterprise.	ZIP1_U18 ZIP1_U19
	U02	A student is able to use basic methods of evaluation and selection of suppliers, including in accordance with the quality criterion.	ZIP1_U08 ZIP1_U14
Social competences	K01	A student understands the necessity of continuous improvement of his/her knowledge from the field of logistics management.	ZIP1_K01
	K02	A student is aware of the responsibility for his/her own work and jointly performed tasks; a student is also ready to comply with the principles of teamwork (by accepting diverse roles).	ZIP1_K04

TEACHING CONTENTS

Method of conducting classes	Teaching contents
Lecture	Importance and goals of logistics Logistic system and process. Supply, production and distribution logistics. Logistics infrastructure: material flow, information flow Designing logistic systems Analysis of the effectiveness of logistics systems
Classes	Models of inventory management in an enterprise. Decision models in acquiring resources / suppliers. Logistic customer service.

METHODS OF ASSESSING TEACHING RESULTS

Symbol	Methods of checking the learning outcomes (select X)					
	Oral exam	Written exam	Test	Project	Statement	Other
W01		X				
W02		X				
W03		X				
U01			X			
U02			X			
K01			X			
K02			X			

FORM AND CONDITIONS OF PASSING

Form of classes	Form of credit	Passing conditions
Lecture	Exam	Obtaining 50% of the points in the exam test
Classes	Credit with grade	The final grade is calculated as the arithmetic mean of the grades obtained during the tutorials.

STUDENT WORKLOAD

Balance of ECTS points												
No.	Type of student's activity	Student's workload										Unit
		full-time					part-time					
		Lc	C	Lb	P	O	Lc	C	Lb	P	O	
1.	Participation in the activities	30	15				18	9				h
2.	Other (consultation, exam)	4	2				4	2				h
3.	Number of hours of a student's assisted work	51					33					h
4.	Number of ECTS credit points which are allocated for assisted work	2,0					1,3					ECTS
5.	Number of hours of a student's unassisted work	49					67					h
6.	Number of ECTS credit points which a student receives for unassisted work	2,0					2,7					ECTS
7.	Work input connected with practical classes	33					33					h
8.	Number of ECTS credit points which a student receives for practical classes	1,3					1,3					ECTS
9.	Total number of hours of a student's work	100					100					h
10.	Punkty ECTS za modul <i>1 ECTS=25 hours</i>	4										ECTS

LITERATURE

1. Bozarth C, Handfield R. (2019), *Introduction to Operations and Supply Chain Management*, Global Ed., 5th Edition, Pearson. ISBN: 978-1292291581.
2. *Industry 4.0 for SMEs - Smart Manufacturing and Logistics for SMEs* (2020), MDPI AG. ISBN 978-3039365678.
3. Miller T., Liberatore M. (2020), *Logistics Management: An Analytics-Based Approach*, Business Expert Press. ISBN 978-1637423608.
4. Rushton A. (2022), *The Handbook of Logistics and Distribution Management: Understanding the Supply Chain*, 7th Edition, Kogan Page, 978-1398602045.
5. Vandepu N. (2020), *Inventory Optimization: Models and Simulations*, 1st Edition, De Gruyter. ISBN: 978-3110673913.