THE INTERNATIONAL UNIVERSITY OF LOGISTICS AND TRANSPORT IN WROCLAW

SYLLABUS

Teacher					
Course	Transport Systems				
Module	Optional courses	ECTS	3	Course code	23SM.P.L.B.IEP.4.2

Major	Speciality	Academic year
LOGISTICS	Industrial engineering	2023/2024
Semester	THIRD	Year of studies: SECOND

Type of studies	Full-time				Extramural			
Type of classes	Lecture	Exercise	Laboratories	Project	Lecture	Exercise	Laboratories	Project
Amount of hours	16	8	10					
TOTAL	34							

Course objectives	Acquisition of knowledge related to transport problems, such as: -transport network and problems related to transport functioning -intermodal transport, road transport, city transport (fast city transport), rail transport, air transport: rules of functioning, organisation, safety and development strategy.

Minimum knowledge required from the student before the classes beginning
Main information related to transport, transport systems, means of transport and general division of transport.

Recommended literature to study before the classes beginning

LEARNING OUTCOMES			KEK	METHODS OF ASSESSMENT	
KNOWLEDGE	K01	Student knows the problems related to organisation and functioning of transport network	K2_W08_L_P	EM1	oral examination
	K02	Student knows the rule of collective transport organisation	K2_W08_L_P	EM1	oral examination
	K03				
	K04				
	K05				
	K06				
SKILLS	S01	Student is able to critically assess current transport solutions and on the basis of the analysis is able to suggest improved systems	K2_U02_L_P	EM10	project evaluation
	S02	Ability to design transport systems	K2_U07_L_P	EM10	project evaluation
	S03	Ability to organise transport functioning	K2_U07_L_P	EM10	project evaluation
	S04				
	S04				
	S05				
SOCIAL COMPETENCE	SC01	Student can work in a group, define research problems, perform multifactor analysis	K2_K05_L_P	EM15	evaluation of activity in the classroom
	SC02				
	SC03				
	SC04				

		Transport network and problems related to transport functioning. Intermodal transport Road transport

Course contents	Lecture	Rail and city transport Air transport Concept of the car road project Concept of roundabouts. Concept of the project of cycle lane. Concept of the project of a pedestrian crossing between the junctions. Concept project of the chosen airport elements.
	Exercises	in line with lectures
	Laboratories	in line with lectures
	Projects	

Teaching methods	**TM2**	**Lecture using multimedia techniques**
	TM10	**Case studies**
	TM11	**Didactic discussion**

Obligatory literature	1	Rodrigue J.P., The Geography of Transport Systems, Routledge, 2020
	2	Ortúzar J.D.D., Willumsen L.G., Modelling Transport, Wiley, 2019
	3	Button K., Transport Economics, Edward Elgar Publishing, 2019

Additional literature	1	Meyer M.D., Miller E.J., Urban Transportation Planning: A Decision-Oriented Approach, McGraw-Hill Education, 2018
	2	
	3	

Requirements to pass the course
The lecturing classes finish with an oral exam. The practical class grade is an average of the grades received for particular tasks. The final grade is an average of the lecture grade and practical classes. To get a satisfying mark for lecturing and practical classes, the student must get 50% of the points from the base sum. The share of each assessment in the final mark in the Assessment part is as follows: 50% assignment, 50% exam.