

Transport and logistic – 4 semester

Lp.	Subject	Description	Semester	ECTS credits	Number of hours for the form of education						Form of passing	
					Lecture	Exercise	Practical classes	ZK	PS	PZ	Exam	Credit
1.	Operational Research	Overview of the engineering methods of designing, configuring and maintaining computer networks Operational research is a field of science that deals with methods of solving decision problems in connection with rational human activity. Operational research methods include the analysis of the effectiveness of various methods of solving problems and the possibilities of finding an optimal solution.	4	4	30	-	30				x	x
2.	Optimization Methods	Discussion and explanation of basic issues related to the process of identifying variables, objective functions, and constraints for a given problem.	4	4	30	-	30				x	x
3.	Engineering and Scientific Calculations	Presentation and analysis of issues related to the simulating phenomena using available tools, solving problems using computer simulation.	4	3	15	-	30				-	x
4.	Computer Simulation	Presentation and analysis of issues related to the simulating phenomena using available tools, solving problems using computer simulation.	4	3	15	-	30				-	x

5.	Automation and Robotization of Processes	Description of the dynamics of objects in the domain of time, operator and frequency variables, solving simple object identification problems and designing control systems for selected processes.	4	3	15	15	30				-	x
6.	Economic Analysis in Transport	During the classes, economic issues related to the functioning of transport enterprises are discussed, students acquire the ability to develop economic analyses in transport and logistics.	4	3	15	15	15				-	x
7.	Logistics	During the course, students will learn the basic concepts of logistics. Methods useful in the areas of supply, production, distribution and logistics management are also discussed.	4	3	30	15	-				x	x
8.	Microeconomics	Explaining the basic concepts of microeconomics and teaching the ability to search for appropriate information in this field on the Internet in such a way as to understand the causes of phenomena at the microeconomic level.	4	3	30	15	-				x	x
9.	Means of Short-range Transport	During classes, students will learn about different types of machines and devices used in short-range transport. They will also learn about functional and strength calculation methods for selected short-range transport means.	4	3	15	-	30				-	x
	Total:			29 ECTS								