

Study program: Road Traffic Engineering			
Course title: Intralogistics			
Professor/assistant: Milan Đorđević			
Type of course: elective			
ECTS credits: 6			
Prerequisites: The course is selected by a student depending on his interests and the topic covered by the master's thesis.			
Aims of the course: Performing calculations: external material flows, internal material flows within and between production processes, loading and unloading processes. Defining transportation and warehouse processes, selecting equipment and devices for transport. Mastering LEAN methodology in logistics processes.			
Learning outcomes: The student will be able to calculate, define, plan and organize logistic flows and processes related to external transport, storage/warehousing and internal supply of materials (parts).			
Syllabus: Defining and calculating material flows within and between production processes. Defining and calculating external and internal material flows. Logistics losses and ways of eliminating it (optimization of logistics flows). A link between the workplace and the line feeding with parts. Designing logistics routes. LEAN methodology in logistics (5S, classification of materials, material flows, VSM, a plan for every part (PFEP))			
Literature: <ol style="list-style-type: none"> 1. Branko Davidović: Unutrašnji transport – intralogistika, Intelekt, Beograd, 2012. 2. Vladić J.: Mehanizacija i tehnologija pretovara, FTN, Novi Sad, 2005. 3. Miodrag Bulatović: Logistika, Inženjerska komora Crne Gore, 2013. 4. Milan Đorđević, Skripta, VTŠSS Kragujevac, 2016. 5. Michel Baudin, Lean Logistics, Productivity Press, 2005 			
Total number of active classes: 5		Lectures: 3	Practical classes: 2
Teaching methods: Lectures: discussions and presentations. Practical part: tasks and examples, term papers, case studies. Consultations.			
Grading system (maximum 100 points) grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51- 60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91- 100 points.			
Pre-exam obligations:	Points:	Final exam:	Points:
Activity during lectures	max 5	Oral exam	50
Practical training	max 5		
Written test(s)	max 20		
Term papers	max 20		
Minimum requirement for the final exam	30		