

Faculty of Mechanical Engineering / ROAD TRAFFIC / CONVEYANCE OF GOODS

Course:	CONVEYANCE OF GOODS			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
5143	Mandatory	1	4.5	2+2+0
Programs	ROAD TRAFFIC			
Prerequisites	Unconditioned.			
Aims	Introduction to the theoretical and practical knowledge, methods and information about technology and management of processes and systems of freight transport.			
Learning outcomes	After passing the exam in this course, students will be able to: 1. Understand the basic principles of the functioning of the goods transport market; 2. Apply basic knowledge about intermodal freight transportation 3. Understand the legal framework related to the road freight transport 4. Calculate the transportation costs. ; 5. Make the selection of the appropriate vehicle in the function of the required capacities; 6. Determine the optimal routes for the transport of goods with the chosen vehicle.			
Lecturer / Teaching assistant	Asst. Prof. Boško Matović / PhD Mirjana Grdinić Rakonjac			
Methodology	Lectures, exercises, consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to the road freight transport			
I week exercises	Introduction to the road freight transport			
II week lectures	Goods transport market. Access to the market. Access to business. The key legislation.			
II week exercises	Goods transport market. Access to the market. Access to business. The key legislation.			
III week lectures	Intermodal freight transportation system			
III week exercises	Intermodal freight transportation system			
IV week lectures	Activities in the intermodal freight system transportation			
IV week exercises	Activities in the intermodal freight system transportation			
V week lectures	Goods in transport. Classification, packaging, labeling. Documents accompanying goods in transport.			
V week exercises	Goods in transport. Classification, packaging, labeling. Documents accompanying goods in transport.			
VI week lectures	Vehicles: classification, operational and transportation attributes and documents.			
VI week exercises	Vehicles: classification, operational and transportation attributes and documents.			
VII week lectures	Drivers: conditions, working hours, driving time and rest period.			
VII week exercises	Drivers: conditions, working hours, driving time and rest period.			
VIII week lectures	Colloquium 1			
VIII week exercises	Colloquium 1			
IX week lectures	Resources in the intermodal freight system transportation			
IX week exercises	Resources in the intermodal freight system transportation			
X week lectures	Planning and designing the vehicle path. Calculation of required capacities. Vehicle selection.			
X week exercises	Planning and designing the vehicle path. Calculation of required capacities. Vehicle selection.			
XI week lectures	Vehicle productivity and influencing factors. Quality of service.			
XI week exercises	Vehicle productivity and influencing factors. Quality of service.			
XII week lectures	Costs of freight transport. Classification of costs.			
XII week exercises	Costs of freight transport. Classification of costs.			
XIII week lectures	Intermodal freight transport terminals			
XIII week exercises	Intermodal freight transport terminals			
XIV week lectures	Risks of intermodal freight transportation			

XIV week exercises	Risks of intermodal freight transportation					
XV week lectures	Final exam					
XV week exercises	Final exam					
Student workload	Weekly 6 ECTS x 40/30 = 8 hours Structure: 2 hours and 30 minutes of lectures 2 hours of tutorials 4 hours of self-learning During semester Lectures and final exam:(8 hours) x 16 weeks = 128 hours Necessary preparations before semester beginning: (administration, enrollment, validation) 2x8 hours=16 hours Total hours of the course: 6x30=180 hours Additional work: preparation for makeup exam and makeup exam 36 hours Load structure: 128 hours (Schooling)+16 hours (preparation)+36 hours (additional work)					
Per week			Per semester			
4.5 credits x 40/30=6 hours and 0 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 2 hour(s) i 0 minuts of independent work, including consultations			Classes and final exam: 6 hour(s) i 0 minuts x 16 =96 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 0 minuts x 2 =12 hour(s) i 0 minuts Total workload for the subject: 4.5 x 30=135 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 27 hour(s) i 0 minuts Workload structure: 96 hour(s) i 0 minuts (courses), 12 hour(s) i 0 minuts (preparation), 27 hour(s) i 0 minuts (additional work)			
Student obligations			Attendance to lectures and excercises; Completed seminar paper.			
Consultations			Every working day.			
Literature			1. Topenčarević Lj. Organizacija i tehnologija drumskog transporta, Građevinska knjiga Beograd., 1987. 2. Jovanović I: Zbirka rešenih zadataka iz organizacije i tehnologije drumskog transporta, Saobraćajni fakultet Beograd, 2000. 3. Brnjac, N., Roso, V., Maslarić, M. T. S., & Tadić, S. (2022). Intermodalni sustavi u transportu i logistici. Zagreb: Fakultet prometnih znanosti, Sveučilište u Zagrebu. 4. Monios, J., & Bergqvist, R. (Eds.). (2017). Intermodal freight transport and logistics. CRC Press. 5. Grant, D. B., Wong, C. Y., & Trautrim, A. (2017). Sustainable logistics and supply chain management: principles and practices for sustainable operations and management. Kogan Page Publishers.			
Examination methods			Oral and written examination. Attendance: 10 points; Seminar paper: 10 points; I colloquium 30 points; II colloquium 30 points; Final exam: 20 points.			
Special remarks						
Comment						
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points