

Study program: Mechanical engineering			
Type and level of studies: Master studies			
Course unit: Integrated transportation			
Teacher in charge: prof. dr Dragan Petrović			
Language of instruction: English			
ECTS:			
Prerequisites: None			
Semester:			
Course unit objective: To introduce students to problems and concepts for safe and efficient service for the movement of people and goods. Students will be required to read widely and think critically to inform analysis of a variety of transport planning issues.			
Learning outcomes of the course unit A student will be able to identify the stakeholders involved in freight transportation, to explain the role of different modes in freight transportation, to describe some trends affecting freight transportation, and their impact on an environment as well and to discuss some of the common issues that prevent freight from being fully incorporated into the planning process.			
Course unit contents <i>Theoretical classes</i> Types of transport and their significance; Participation and the importance of transport in economic, political, socially, culturally, political development of the society; Basic concepts and main effects of integrated transportation; Packaging of goods, palletizing and use of the containers in integrated transport; Insurance of goods and means of transport; Fundamentals terms of freight forwarding and customs; The importance and role of introducing quality systems and information technology in transportation; Intermodal transport and its role in environmental protection. <i>Practical classes</i> A student project is dedicated to solving the problem of transportation by applying the principle learned in this course.			
Literature Risto Perišić, Modern transport technologies I, Faculty of transport and traffic engineering, Belgrade 1995 Huub Vrenken, Cathy Macharis, Peter Wolters, Intermodal Transport in Europe, EIA Brussels, Belgium, 2005 Lowe D., Intermodal freight transport, Elsevier, 2005.			
Number of active teaching hours			Other classes
Lectures:	Practice:	Other forms of classes:	
			Independent work: 1
Teaching methods Lectures are carried out in classrooms, using multimedia presentations. Exercises are carried out in classrooms under the supervision of teacher, practicing calculations taught at classes. However, the course is attended by a single student, the lectures and exercises in classroom are replaced by mentoring of the student by the lecturer. On the other hand, the student project comprises autonomous work of the student with consultations with the teacher.			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures		oral examination	
practical classes/tests		written examination	
Seminars/homework		
Project			
Other			
Grading system			
Grade	No. of points	Description	
10	91-100	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	
6	51-60	Passing	
5	Less than 50	Failing	