

Study program: Road traffic			
Course title: Transport Elements			
Professor/assistant : Tomislav, R, Marinković/ S. Petar Đekić			
Type of course: compulsory			
ECTS credits: 6			
Pre-requisites:			
Aims of the course Acquisition of basic knowledge in the field: Standardization and tolerance, mechanical power transmissions, axles, shafts, and bearings, springs, pins and connectors.			
Learning outcomes Students should be able to: differentiate between basic elements of the means of transport, define the advantages and disadvantages as well as the field of application of power transmission to independently perform simple calculations and design elements of the vehicles.			
Syllabus			
<i>Theoretical part</i>			
Loads and stress elements of vehicles. The links and connections for transport vehicles and equipment. Elements of power transmission. Shafts and axles. Bearings, sliding and rolling. Connection shaft and rotating parts. Coupling. Spring.			
<i>Practical part :</i>			
Tolerance range overlap of the first project assignment: the co-hole system of collective cap. Choosing belt - homework. Analysis work. Second project assignment: Gearbox motor vehicle (gears). The third project assignment: Gearbox motor vehicle (gear shaft). Bearing shaft. Defiance of reference.			
Literature			
1. Dr Ratko Šelmić Elementi transportnih sredstava i uređaja.,Saobraćajni fakultet u Beogradu, Beograd-2006.			
2. Ristić, S.,: Praktikum za izradu projektnih zadataka iz mašinskih elemenata 1, VTŠ Niš 2005.			
3. Ristić, S., Praktikum za izradu projektnih zadataka iz mašinskih elemenata 2, VTŠ Niš 2005.			
Number of active classes			Other forms of teaching:
Lectures: 45	Practical classes: 45	Research work:	
Teaching methods Comibined, interactive approach with practical problem solving.			
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 theoretical lectures	5	written exam	30
practical training	5	oral exam	
colloquium(s)/seminar papers	30/30		
Sum	70	Sum	30