

Study program: Road Traffic			
Course title: Motor Vehicles			
Professor/assistant : Tomislav, R, Marinković/Vladimir Popović			
Type of course: compulsory			
ECTS credits: 7			
Pre-requisites:			
Aims of the course Preparing students to: master the basic concepts of motor vehicles, adopt concepts and terms of their major components, identify and analyze the influential parameters of their stability, safety and effectiveness.			
Learning outcomes Student should be able to: describe different and basic concepts of motor vehicles, define and analyze all the influential parameters of their stability, security and efficiency during operation, do an independent research paper to implement the acquired knowledge.			
Syllabus			
<i>Theoretical part</i> Classification of motor vehicles and trailers, the drivetrain, the basic concepts of motor vehicles, mechanical group, rolling wheels of the car, weight distribution coordinates of the center of gravity, the static soil reaction, force and resistance when moving the car, the overall reaction of the soil, the tow-speed characteristics, braking cars, stability , the choice of gear ratios, fuel economy.			
<i>Practical part :</i> Solving practical problems, implementation of knowledge through essay tests and checks.			
Literature:			
1. Dušan Simić, Motorna vozila, Naučna knjiga, Beograd 1988.			
2. Ivan Ivković, Mirko Spasić, Motorna vozila – zbirka rešenih zadataka, Univerzitet u Beogradu, Saobraćajni fakultet, 2007.			
3. Ivan Ivković, Mirko Spasić, Motorna vozila – uputstvo za izradu godišnjeg zdatka, Univerzitet u Beogradu, Saobraćajni fakultet, 2007.			
Number of acitve classes			Other forms of teaching:
Lectures: 45	Pracitcal classes: 30	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	40/20		
Sum	70	Sum	30