

# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

Faculty of Mechanical Engineering

## GENERAL INFORMATION

Study Program	<b>Mechanical Engineering</b>		
Study Module (if applicable)	-		
Course Title	Road Vehicles		
Level of Study	<input checked="" type="checkbox"/> Bachelor	<input type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory	<input checked="" type="checkbox"/> Elective	
Semester	<input type="checkbox"/> Autumn	<input checked="" type="checkbox"/> Spring	
Year of Study	IV		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Dusan Stamenković		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input checked="" type="checkbox"/> Laboratory work	<input type="checkbox"/> Project work	<input checked="" type="checkbox"/> Seminar
	<input type="checkbox"/> Distance learning	<input type="checkbox"/> Blended learning	<input type="checkbox"/> Other

## Purpose and Overview (max. 5 sentences)

Introduce students to the basics of road vehicles construction - passenger and commercial vehicles. Legislation and standards about road vehicles, construction, body and equipment.

## Syllabus (brief outline and summary of topics, max. 10 sentences)

1) The concept of road vehicles; Standards related to road motor vehicles - classification of road vehicles and trailers according to SRPS and ECE, 2) Mechanical groups of road vehicles (chassis, body, equipment, transmission), 3) IC engine - types, working principle and mode, systems, components and assemblies 4) Performance parameters of IC engines – power, torque, specific fuel consumption, etc., 5) Emissions, 6) The weight distribution and the center of gravity of the vehicle, 7) Resistive forces of the vehicle movement, 8) Stability, turning and handling of vehicles, 9) Braking – brake ratio and braking force diagram, 10) Legal regulatory and restrictions.

## Language of Instruction

Serbian (complete course)       English (complete course)       Other \_\_\_\_\_ (complete course)

Serbian with English mentoring       Serbian with other mentoring \_\_\_\_\_

## Assessment Methods and Criteria

Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	10	Written Examination	max. 70 (depending on Teaching Colloquia)

<b>Practical Teaching</b>	<b>20</b>	<b>Oral Examination</b>	<b>max. 35 (depending on Teaching Colloquia and Written Examination)</b>
<b>Teaching Colloquia</b>	<b>70</b>	<b>Overall Sum</b>	<b>100</b>
<b>*Final examination mark is formed in accordance with the Institutional documents</b>			