



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Fundamentals of Traffic and Transport Engineering		
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 checked="" type="checkbox"/> Autumn	<input type="checkbox"/> Spring	
Year of Study	III		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Marijana T. Petrović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input type="checkbox"/> Laboratory work	<input type="checkbox"/> Project work	<input 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 concept and basic terms, dimensions and characteristics of traffic and transportation. Upon completion of the course each student should be able to define the characteristics performance and specificities of transport system, processes and services and describe the historical development of transport and analyses factors of transport development; define the basic geographical, technological and operational characteristics of different modes of transport, as well as their position in the transport market and the role of ICT; identify relationship between transport and logistics.

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

1) Basic terms and concepts in traffic and transport engineering; 2) Transport system and subsystems 3) Mobility and accessibility as primary functions of transport system, 4) Basic performance characteristics related to transport and traffic - capacity, reliability, safety, security; 5) History of transportation; 6) Fundamental characteristics of transportation modes (water, rail, road, air and pipeline); 7) Information and communication technologies and transport 8) Transport and logistics.

Language of Instruction

- Serbian (complete course) English (complete course) Other _____ (complete course)
- Serbian with English mentoring Serbian with German mentoring

Assessment Methods and Criteria

Pre exam Duties	Points	Final Exam	Points
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Activity During Lectures	25	Written Examination	20-40 (depending on Teaching Colloquia)
Practical Teaching	20	Oral Examination	15
Teaching Colloquia	20	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			