

UNIVERSITY OF NIŠ

Course Unit Descrip	otor	Faculty	/ F	aculty of Me	chanical Eng	gineering	
GENERAL INFORMATION							
Study Program	Mechatronics and Control						
Study Module (if applicable)	Mechatronics and Control						
Course Title	Mechatronic Systems in Traffic and Transportation						
Level of Study	□Bachelor		⊠Maste	er's	☐ Doctor	-al	
Type of Course	☐ Obligator	у	⊠ Electi	ve			
Semester	⊠ Autumn		□Spring	5			
Year of Study	1						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Miloš S. Milošević						
Teaching Mode Purpose and Overview (max. 5 ser	☑ Lectures☑ Laboratory work☐ Distance learning		☑ Group tutorials☑ Project work☐ Blended learning			☑ Individual tutorials☑ Seminar☐ Other	
Getting to know the principles of op areindispensable equipment that in energy efficiency, environmental as operation of mechatronic systems u throughpractical training to identify different conditions of use.	modern vehic pects and com used in modern	les and in the fort.Acquirir n motor vehic	e organizating theoret tles and tr	tion of trans _l ical and prac affic organiza	oort and tran tical knowled ation and tra	nsportation dge of the pi insportation	affect the safety, rinciples of n. Empowerment
Syllabus (brief outline and summa	ry of topics, r	nax. 10 sente	ences)				
Introduction to mechatronic system Sensors, actuators. Control of mechatronic systems in motor veh systems in traffic and transportation vehicles and their impact on energical applied mechatronic systems in motor vehicles ensuring packages for diagnosis and testing traffic and transportation.	hatronic syste icles. Diagnos on. Telematics y efficiency,e otor vehicles. g their optimu	ems. Mechar stics and test s. Intelligent nvironmenta Identify, mea m function u	nical, elect ing of med Transport I aspect, s asure and under diffe	rical and ele chatronic sys ation Systen ecurity and adjustment erent conditi	ctronic comp stems in moons. Trends in comfort. Exa of paramete ons of use. N	ponents in r tor vehicles. Mechatron Imples of fu ers of applie Work with n	motor vehicles. Mechatronic ics in motor nctioning of d mechatronic nodern software
Language of Instruction							
⊠Serbian (complete course)	□Englis	sh (complete	course)	□ O	ther	(co	mplete course)
⊠Serbian with English mentoring	□Serbia	an with othe	r mentorii	ng			

		Assessment Methods and Criteria							
nts	Final Exam	Points							
	Written Examination	0							
	Oral Examination	20							
	Overall Sum	100							
		Written Examination Oral Examination							

^{*}Final examination mark is formed in accordance with the Institutional documents