

## UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Fa	culty of Mech	of Mechanical Engineering			
GENERAL INFORMATION								
Study Program	Traffic er	Traffic engineering, transport and logistics						
Study Module (if applicable)	-	-						
Course Title	Decision Su	Decision Support Systems in Traffic and Transport						
Level of Study	Bachelor	Bachelor 🛛 Master's 🗆 Doctoral						
Type of Course	Obligate	□ Obligatory ⊠ Elective						
Semester	🛛 Autumn	🛛 Autumn 🗆 Spring						
Year of Study	1	1						
Number of ECTS Allocated	6	6						
Name of Lecturer/Lecturers	Zoran Mari	Zoran Marinković						
Teaching Mode	⊠ Lectures	☐ Group tutorials ☐ Individual tutorials						
	🗆 Laborat	ory work	🛛 Project	work	oxtimes Seminar			
	Distance	□ Distance learning		d learning	🗆 Other			
Purpose and Overview								
The basic objective of the cou transportation systems. The sub systems that improve the quality	rse is to enat oject prepares of decisions.	ole students to students for t	o model d he develop	nd analyze a oment and im	lecision-making in complex traffic and plementation of interactive computing			
Syllabus	,							
Theoretical Work: 1) The basic support systems, 3) Examples or freight management of uneven 5) Concepts and basic definition of determining the weight crit MAXMIN, TOPSIS, VIKOR, AHP, analysis and optimization. Practi	elements and f advanced dec flows in the ne ns: effective sc eria, 7) Data I 9) Fuzzification ical learning: In	features of sy cision support : etwork,), 4) olution, the rel Envelopment , n traditional m adependent res	vstems bas systems (s Multi-crite ative impo Analysis (I nethods of search wo	sed on mathe cheduling of v ria analysis an rtance of crit DEA), 8) Ranl multi criteria, rk in consultat	ematical models, 2) Intelligent decision workers and transportation equipment, ad optimization of traffic and transport, eria, preference functions, 6) Methods king methods: PROMETHEE, ELECTRE, 10) Software tools for multiple criteria tion with the teacher.			
Language of Instruction								
Serbian (complete course)	🛛 Eng	glish (complete	course)	🗆 Othe	er (complete course)			
□Serbian with English mentorir	ng □Sert	pian with other	r mentorin	g				
Assessment Methods and Crite	ria							
Pre exam Duties	Point	ts Final Exam		Points				

Activity During Lectures	10	Written Examination	30			
Practical Teaching	0	Oral Examination	30			
Seminars	30	Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						