

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Faculty Faculty		of Mechanical Engineering			
GENERAL INFORMATION		n						
Study Program	Traffic e	ngineering,	transpo	ort and log	istics			
Study Module (if applicable)								
Course Title	Discret lo	Discret logistic's simulation						
Level of Study	Bachelc	or	🛛 Mas	ter's	Doctoral			
Type of Course	🗆 Obligat	□ Obligatory		⊠ Elective				
Semester	🗆 Autumi	🗆 Autumn		⊠ Spring				
Year of Study	1							
Number of ECTS Allocated	6							
Name of Lecturer/Lecturers	Miomir Lj.	Jovanović						
	🛛 Lecture	25	🗆 Grou	p tutorials	🗆 Individual tu	utorials		
Teaching Mode	🛛 Labora	tory work	🛛 Proje	ect work	🛛 Seminar (Co	olloquium)		
	🗆 Distanc	e learning	🗆 Blene	ded learning	🗆 Other			
Purpose and Overview (max. 5	sentences)							
Introduction to the Theoretical a The Acquisition of knowledge ar	and Practical ki nd Experience	nowledge of Lc to solve base p	ogistics s roblems	imulation. of Logistics s	imulation in Tran	sportation technolog	 չy.	
Syllabus (brief outline and sum	mary of topics	s, max. 10 sente	ences)					
General of simulations: Real syst simulation, principles and applic random variables. Statistics rela Assessment tests and distributic theory and Queuing theory. Disc (Excel). The simulation systems. realization: Modeling with Autol establishment and verification o of the results of simulations.	em, simulation ation areas. Th tions. Discrete on. Method of crete event sim Overview of s Nod software f the model. E	n model, proces ne creation of a random variab Monte Carlo sir nulation. The an imulation softw . Procedures of xperiments wit	ss of sim simulation les. Distr mulation halysis of vare (Are f the sim h simula	ulation, analy on model. The ibutions of ra- s. Empirical a the simulatic ena, AutoMoc ulation analys tion models.	sis of simulation e study of the rea andom size. Rand nd theoretical dis on examples of co d, Enterpise Dyna sis. Formulating { Evaluation of sim	results. Types of al system. Modeling o lom generators. stribution. Servicing ontinuous transport mics, Witness). Practi goals and objectives. sulation models. Analy	f ical The /sis	
Language of Instruction								
Serbian (complete course)	Er	nglish (complete	e course) 🗆 0	ther	(complete course	<u>)</u>	
Serbian with English mentor	ring 🗆 Se	erbian with oth	er mento	oring				
Assessment Methods and Crite	aria							

Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	5	Written Examination	(Three Colloquiums) 60
Practical Teaching	5	Final (oral) Examination	Max. 30
Three (3) teaching Colloquia (projects)	60	Overall Sum	100