

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty		Faculty of Mee	chanical Engineering	
GENERAL INFORMATION						
Study Program	Engineering management					
Study Module (if applicable)	-					
Course Title	Mathematics in Engineering management					
Level of Study	⊠Bachelor		🗆 Mas	iter's	Doctoral	
Type of Course	⊠ Obligator	ry	🗆 Elec	tive		
Semester	🛛 Autumn		🗆 Spri	ng		
Year of Study	I					
Number of ECTS Allocated	8					
Name of Lecturer/Lecturers	Radović M.	Ljiljana				
	⊠ Lectures		🛛 Grou	p tutorials	Individual tutorials	
Teaching Mode	□ Laboratory work		🗆 Proje	ect work	Seminar	
	□ Distance	learning	🗆 Blen	ded learning	⊠ Other	
Purpose and Overview (max. 5 ser	ntences)					
Acquisition of general education in that allow the use of mathematical Ability of analyzing and solving mat research, monitoring of production decisions. Basic knowledge to highe specialized subjects. Ability of a wic	methods in re hematical pro and trade and r mathematic	esearch and ta oblems, applice d other studies cs and to enabl	ctical, o ation of s that aı le stude	perational and mathematical re necessary for nts to apply the	strategic business decisions. methods in business analysis, mar making timely and optimal busin eir knowledge in other general and	ket Iess
Syllabus (brief outline and summa	ry of topics,	max. 10 sente	nces)			
Outline: After completing this cours linear algebra, single variable calcul with the concepts. Summary of topics: 1) Elementary a Linear optimization. 5) Real functio functions of several real variables, c functions of several variables). 7) In economic functions, elasticity of eco	us and applico nd rational fu ns of one real lifferentiation definite and c	ations in econo Inctions. 2) Inte Variable – limi Vaciable – limi Calculus and c definite integro	omy as v eger ser it value; applicat als and c	vell as a range o ies. 3) Systems continuity; difj ion (unconstra ipplication. 8) I	of skills allowing them to work eff of linear equations and matrix alg ferential calculus and application. ined and constrained extreme valu Economic functions, optimization	ectively gebra. 4) 6) Real ues of
Language of Instruction						
⊠Serbian (complete course)	🗆 Engl	lish (complete	course) □ Ot	her (complete co	ourse)
□Serbian with English mentoring	Serbi	ian with other	mento	ring		

Assessment Methods and Criteria						
Pre exam Duties	Points	Final Exam	Points			
Activity During Lectures	5	Written Examination	Max. 60 (depending on Teaching Colloquia)			
Practical Teaching and Homework	5+10	Oral Examination	20			
Teaching Colloquia	60	Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						