Study programme(s): Master in	n Mathematics Teach	ning (MF	P), Mathematics (MA)	
Level: master				
Course title: Theory of Curves a	and Surfaces (MA-0	8)		
Lecturer: Sanja V. Konjik				
Status: Obligatory				
ECTS : 5				
Requirements:				
Learning objectives				
Acquiring knowledge and skills	in the selected topic	s of the t	heory of curves and surfa	ices.
Learning outcomes				
Students should be able to apply	the acquired knowled	edge and	skills to specific problen	18.
Syllabus				
Theoretical classes				
Regular curves in R ⁿ , the arc le	0		· •	0
vector, normal and binormal vec			· ·	
fundamental theorem of the loca				
surfaces in R ³ , the first fundam	,		U	
fundamental form, curvatures (ne	U U	-		•
of surfaces, the covariant derivat				
Gauss and Weingarten equations	s, the Gaus Theorem	a Egregi	um, the fundamental theo	orem of the
local theory of surfaces				
Practical classes	1. 4. 7. 1. 1	1.	1 ' (' 1 11	
Application of knowledge gained	d in theoretical class	es and in	i solving practical problei	ns
(exercises).				
Literature	atura Caura Saufaa	aa Manif	folds and addition AMC	
Kühnel, W., Differential GeomBanchoff, T., Lovett, S., Differ				
Natick, 2010.	ential Geometry of v	curves a	nu Sunaces, A K releis,	Liu.,
- O'Neill, B., Elementary Differe	ntial Geometry Per	rised Inc	diction Elegation Inc. II	SA 2006
- Blažić, N., Bokan, N., Uvod u				
1996.	unerenerjaniu geom	cuiju, v	esta, matematicki fakulte	i, Deogradi,
- Dragović, V., Milinković, D., A	Analiza na mnogostr	ukostim	a Matematički fakultet F	Renorad
2003.	manza na mnogosti	unostiin	a, Matematicki fakultet, L	,eograd,
Weekly teaching load				Other: 0
	ther forms of teaching	ng· ()	Student research: 0	
Teaching methodology				1
Oral presentation by the teacher,	exchange of opinio	ns betwe	en teachers and students	problem
solving, combined methods, use				
	ing (maximum nun			
111 201				
	points	1	exam	points
Pre-exam obligations	points	Final e		points
Pre-exam obligations Activity during lectures	points 10	Final e Writter	n exam	-
Pre-exam obligations		Final e	n exam	points 50