Study programme(s): Mathematics (AL)						
Level: bachelor						
Course title: Graph Theory 2 (AL-19)						
Lecturer: Vojislav Petrović						
Status: elective						
ECTS : 10						
Requirements: none						
Learning objectives						
Special topics of Graph Theory. Introduction to contemporary techniques, results and open problems.						
Learning outcomes						
Students are expected to be able to read and understand papers and to make first steps in research.						
Syllabus						
Theoretical instruction						
Graph colorings. Digraphs, tournaments. Flows in networks. Probabilistic methods. Extremal graphs.						
Ramsey theory.						
Literature						
1. J. A. Bondy and U.S.R. Murty, <i>Graph Theory</i> , Series: Graduate Texts in Mathematics,						
Vol. 244, Springer, 2008.						
2. I. Bošnjak, D. Mašulović, V. Petrović, R. Tošić, Zbirka zadataka iz teorije grafova,						
Univerzitet u Novom Sadu, 2005.						
3. G. Chartrand, L. Lesniak, <i>Graphs & Digraphs</i> , Chapman & Hall, London 2005.						
4. D. West, <i>Introduction to Graph Theory</i> , Second Edition, Prentice Hall, 2001.						
5. V. Petrović, <i>Teorija grafova</i> , Univerzitet u Novom Sadu, 1998.						
Weekly teaching load						ner:
				<u>, </u>	0	
Lectures:	Exercises:	Other f	forms of teaching:	Student research:		
2	0	0		6		
Teaching methodology						
Lectures, discussions, consultings.						
Grading method (maximal number of points 100)						
Pre-exam obligations			points	Final exam		points
Homeworks			20	Verbal exam		80