

<b>Study program:</b> Mathematics (Ph.D. program)			
<b>Course:</b> Topology 1			
<b>Course instructor(s):</b> Ljiljana Gajić			
<b>Course type (compulsory/elective):</b> elective			
<b>Credit points:</b> 10 ECTS			
<b>Prerequisites:</b> -			
<b>Course objectives:</b> Systematization of previous knowledge in topology and introduction to basic principles of topology necessary for the higher-level courses in the subject.			
<b>Learning outcomes:</b>			
<i>Minimal:</i> Understanding of the studied parts of topology; the ability to analyze basic properties of a topological space.			
<i>Desirable:</i> Deeper understanding of the theory, through more sophisticated examples, applications and connections to other branches of mathematics.			
<b>Course description (outline):</b> Topological spaces. Countability axioms. Basic operators. Separability. Continuity. Separation axioms. Convergence in lattices and filters.			
<b>References:</b>			
1. R. Engelking, General Topology, Heldermann Verlag, Berlin, 1989.			
2. Kelley J.L., General Topology, D. Van Nostrand Comp. Inc., Princeton, New Jersey, 1957, [руски превод са додатком А. В. Архангелског: Наука, Москва, 1980.]			
3. Kuratowski K., Topology I-II, Academic Press, New York; PWN, Warszawa, 1966. [руски превод: Мир, Москва, 1966.			
<b>Active teaching hours</b>	<b>Theoretical classes:</b> 2	<b>Practice classes:</b> -6	
<b>Methods of teaching:</b> Lectures, with active participation of the students, discussion, etc.			
<b>Grading structure</b>			
<b>Pre-exam obligations</b>	<b>Points</b>	<b>Exam</b>	<b>Points</b>
Colloquia	<b>50</b>	Oral exam	<b>50</b>
Seminars			