

Study program: Mathematics (Ph.D. program)			
Course: Topology 4			
Course instructor(s): Miloš Kurilić			
Course type (compulsory/elective): elective			
Credit points: 10 ECTS			
Prerequisites: -			
Course objectives: Introduction to the properties of connectedness and metrizable and their various generalizations.			
Learning outcomes:			
<i>Minimal:</i> Understanding of the studied parts of topology; the ability to analyze advanced 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.			
Course description (outline): Connectedness. Various forms of non-connectedness. Metric spaces. Completeness. Total boundedness. Metrizable. Uniform spaces. Para-compactness.			
References:			
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.			
Active teaching hours	Theoretical classes: 2	Practice classes: -6	
Methods of teaching: Lectures, with active participation of the students, discussion, etc.			
Grading structure			
Pre-exam obligations	Points	Exam	Points
Colloquia	50	Oral exam	50
Seminars			