

Program	Level		Third cycle	
	Name of the program		SEE Doctoral Studies in Mathematical Science	
COURSE				
Course title	Algebraic topology II			
Course code	Semester	Course status	ECTS	Contact hours
PMAT 690	I	Elective course	10	30
Lecturer	Prof. dr. Ismar Volić			
Course Goals	This case is continued by Algebraic Topology and which developed the basic invariants topological space as the fundamental group and homology. The main focus in this continue is the cohomotopy which has additional interesting properties and applications in various mathematical areas. The homotopic group, which generalize fundamental group, and a stable theory of homotopy will also be one of the main topics.			
COURSE CONTENT				
<ul style="list-style-type: none"> - Cohomology - Meyer-Vietoris array - Cup product - Künneth Theorem - Poincaré duality - Mnogostrukosti i deRham cohomology - Groups of homotopy - Freudenthal suspense and stable homotopy - Cubic diagrams i Blakers-Massey Theorem 				
LITERATURE				
<p>[1] Allen Hatcher, Algebraic Topology, Cambridge University Press, 2002</p> <p>[2] Tammo Tom Dieck, Algebraic Topology, European Mathematical Society, 2008</p> <p>[3] James Davis and Paul Kirk, Lecture Notes in Algebraic Topology, American Mathematical Society, 2001</p> <p>[4] J. Peter May, A Concise Course in Algebraic Topology, University of Chicago Press, 1999</p>				
GRADING			REMARKS	
Criterion	Maximum points	Minimum points		
Homework	70	40		
Final exam	30	15		
T o t a l	100	55		