Study programme(s): Mathematics (MD)

Level: PhD studies

Course title: Topology 2 (AN-16)

Lecturer: Olga L. Hadžić

Status: elective

ECTS: 10

Requirements:

Learning objectives

Introductions to basic operations on topological spaces.

Learning outcomes

Minimal:

At the end of the course students are expected to show understanding of topics in topology covered during the course, through proofs of the main theorems and topological analysis of a given space.

Desirable:

At the end of the course students are expected to show deeper understanding of topics in topology covered during the course, through proofs of the main theorems and topological analysis of a given space, knowledge of standard examples and applications of the acquired knowledge in other fields of mathematics.

Syllabus

Topological subspace. Sum. Tikhonov product. Factor spaces. Spaces of mappings: pointwise and uniform convergence.

Literature

1. R. Engelking, *General Topology*, Heldermann Verlag, Berlin, 1989. 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. Архангел'ског: Наука, Москва, 1980.]
3. Kuratowski K., *Topology* I-II, Academic Press, New York; PWN, Warszawa, 1966. [руски превод: Мир, Москва, 1966.]

Weekly teaching load				Other: 0
Lectures: 2	Exercises 0	Other forms of teaching: 0	Student research: 6	

Teaching methodology

Plenary lectures, problem sessions, independent presentations carried out by students.

Grading method (maximal number of points 100)			
Pre-exam obligations	**points**	**Final exam**	**points**
Colloquia	50	Oral exam	50