Study program: Mathematics (Ph.D. program)	
Course: Numerical Methods for Mathematical Models in Economics	
Course instructor(s): Zorana Lužanin	
Course type (compulsory/elective): elective	
Credit points: 10 ECTS	
Prerequisites: -	

Course objectives:
  Introduction to the numerical methods applied to mathematical models in economics.

Learning outcomes:
  The student will understand and apply a wide spectrum of numerical methods to mathematical models that appear in micro- and macroeconomics.

Course description (outline):
  Fixed point theory in equilibrium problems. Numerical methods for solving dynamical models in economics. Numerical methods of optimization to models of risk minimization and profit maximization.

References:
1. Anglel de la Fuente, Mathematical Methods and Models for Economists, Cambridge University Press, 2000.
2. A. Mas-Colell, M. D. Whinston, J. R. Green, Microeconomic Theory, Oxford University Press, 1995.

Active teaching hours	**Theoretical classes:** 2	**Practice classes:** -6

Methods of teaching:
  Lectures and practice, with active participation of the students, discussion, etc.

Grading structure			
Pre-exam obligations	**Points**	**Exam**	**Points**
Colloquia	**25**	Oral exam	**50**
Seminars	**25**		