Study are grown $a(x)$ . A solid wether stice (MD)			
L ovol: master			
Course title: Mathematical models in economics (MB-07)			
Lecturer: Zorana Lužanin			
Status: obligatory for MP module Einancial mathematics			
FCTS: 7			
Dequirements:			
Learning chiestives			
Learning objectives			
applications of mathematics in modern accommiss and finance. Much of the mathematics will be			
applications of mathematics in modern economics and mance. Much of the mathematics will be familian and the amphasic will be an applying it in accompanies			
Tammar, and the emphasis will be on apprying it in economics.			
Learning outcomes			
Functional knowledge of mathematical models that are used in microeconomics and			
macroeconomics. The ability to define and practical application of appropriate model for the type			
of problem (consumption, production, inflation, unemployment, exchange rate, etc.).			
Syllabus			
Theoretical instruction			
Models in microeconomics: preference and choice; budgets; demand function; classical demand			
theory; preference and utility; production;			
Models in macroeconomics: goods and money market dynamics; IS-LM model			
Practical instruction			
Tasks and problems are solved, practical lessons follow the teaching content i.e. theoretical			
instructions.			
Literature			
1. K. J. Arrow, M. D. Intriligator, eds, Handook of Mathematical Economics, Elsevier Science			
Publishing Company, 1987			
2. A. de la Fuente, Mathematical Methods and Models for Economists, Cambridge University			
Press, 2000			
3. A. Mas-Collel, M. D. Whinston, J. R. Green, Microeconomic Theory, Oxford University			
Press, 1995			
4. R. Shone: Economic Dynamics, Cambridge, 2002			
5. H. R. Varian, eds, Economic and Financial Modelling with Mathematics, Springer, 1993			
Weekly teaching load Other:			Other:
Lectures: 4 Exercises: 2	Other forms of teach	ing: Student research:	
Teaching methodology			
Lectures, exercises, analysis of examples with applications, writing reports and statistical			
analysis.			
Grading (total number of points 100)			
Pre-exam obligations	points	Final exam	points
seminar	20	oral exam	

written exam

40

40

tests

colloquia