

Study programme(s): Mathematics	
Level: First level	
Course title: Economics: A Mathematical Introduction	
Lecturer: Jasna V. Atanasijević	
Status:	
ECTS: 5	
Requirements: None	
Learning objectives To adopt the main principles of economics as a science and to understand main economic concepts with the support of economic models presented using mathematical tools.	
Learning outcomes At the end of the course student should master the basic principles of economics, understand the way that market operates (consumer behavior, producer/firm behavior, price determination, elasticity, main determinants of supply, demand and prices), understand the case for state intervention, principles of equity and efficiency, as well as models used for analysis of macroeconomic policy impact. Based on these concepts, student should be able to identify and interpret main factors behind outcomes reflected in practical / real life economic issues with help of models as a framework for thinking.	
Syllabus <i>Theoretical instruction:</i> Introduction <ul style="list-style-type: none"> - Principles of economics - Economic models Microeconomics <ul style="list-style-type: none"> - Market analysis: supply, demand, equilibrium - Elasticity and its application - Consumer behaviour, demand function - Theory of supply: production and costs - Public sector economics: externalities, public good, tax system - Firm behaviour on competitive markets - Imperfect competition: monopoly, oligopoly, monopolistic competition - Market for production factors: Labour market Macroeconomics <ul style="list-style-type: none"> - Macroeconomic data: national accounts, unemployment, inflation - Saving, investment and financial system - The open economy - Short term economic fluctuations, aggregate demand and aggregate supply - Monetary and fiscal policy: influence on the aggregate demand 	
Literature 1. Gregori Mankju, <i>Principi ekonomije</i> , Centar za izdavačku delatnost Ekonomskog fakulteta u Beogradu (2013) 2. C.J.McKenna and Ray Rees, <i>Economics: A Mathematical Introduction</i> , Oxford University Press (1993) 3. Hal R. Varian, <i>Mikroekonomija, moderan pristup (7.izdanje)</i> , Ekonomski fakultet (2014) 4. Majkl Burda i Čarls Viploš, <i>Makroekonomija – evropski udžbenik</i> , CLDS (2004) 5. Džozef Štiglic, <i>Ekonomija javnog sektora (3.izdanje)</i> , Ekonomski fakultet (2013)	
Weekly teaching load	Other: 0

Lectures: 4	Exercises:	Other forms of teaching:	Student research: 0	
<p>Teaching methodology</p> <p>Lectures are held in the form of presentation using a ppt slides and a projector. Some presentations are followed by a discussions and problem solving exercises aiming to illustrate and bring to deeper understanding of the presented theoretical concepts. Students are given homework to analyse a practical application of one of economic concepts in groups of 3-5 and to present to the rest of the group. Presentation is followed by discussion and a feedback related to the form, the contents and depth of understanding of the practical manifestations of the relevant economic concept.</p>				
Grading (maximum number of points 100)				
Pre-exam obligations	Points	Final exam	points	
Homework presentation	20	Written exam	80	