Course Title	Mathematics II				
Course Code	MAT 102				
Course Type	Compulsory				
Level	Undergraduate				
Year / Semester	Year 1 / Semester 2				
Teacher's Name	ROMANA NOVAKOVIC				
ECTS	6	Lectures / week	2	Laboratories / week	1
Course Purpose and Objectives	This course aims to provide the skills for implementation of the mathematical knowledge to the problems of economics and business. The main objective of this course is to provide students advanced mathematical tools that are necessary for understanding specific topics related to finance. Students should be able to use the statistical software R-programming to compute matrices and others.				
Learning Outcomes	<ul> <li>Upon successful completion of this course, students should be able to:</li> <li>Solve problems that are applications of sequences and series in economics and finance.</li> <li>Understand how mathematical tools and techniques are useful in financial and economic theory.</li> <li>Recognize the role of quantitative methods in decision making.</li> <li>Apply mathematical methods and tools to problem-solving using R-programming.</li> <li>Explain the mathematical solutions using financial and economic theory.</li> </ul>				
Prerequisites	NONE		Required	NONE	
Course Content	<ul> <li>Sequences and series</li> <li>Sequences, geometric series, applications in finance (simple and compound interest).</li> <li>Systems of linear equations</li> <li>Recognize, graph, and solve system of linear equations, applications of system of linear equations.</li> <li>Matrices</li> </ul>				

	2014				
Assessment	Participation Midterm Exam Homework Final Exam	10% 30% 10% 50%			
Language	English				