

**“BOGDAN VODĂ” UNIVERSITY OF CLUJ-NAPOCA**  
**FACULTY OF ECONOMICAL SCIENCES**  
**SPECIALIZATION: MANAGEMENT, MANAGEMENT BAIA MARE, FINANCE**  
**AND BANKS, ACCOUNTING AND MANAGEMENT INFORMATICS**  
**ACADEMIC YEAR 2010-2011**

**DISCIPLINE FILE**

<b>Name of discipline</b>	<b>MATHEMATICS APPLIED IN ECONOMY</b>					
<b>Code of discipline</b>	EC 1102	<b>Year</b>	<b>I</b>	<b>Number of credits</b>	<b>5</b>	
		<b>Semester</b>	<b>I</b>			
<b>Faculty</b>	<b>ECONOMICAL SCIENCES</b>			<b>Number of hours in semester /activities</b>		
<b>Profile</b>	<b>ECONOMIC</b>			<b>Total</b>	<b>C</b>	<b>S</b>
<b>Specialization</b>	<b>Management, Finance and banks, Accounting and management informatics</b>			<b>42</b>	<b>28</b>	<b>14</b>
<b>Course type</b> DF – fundamental, DS – specialized, DC – complementary					<b>DF</b>	
<b>Optional course category:</b> DI – imposed, DO – optional, DF – facultative					<b>DI</b>	

<b>Prevision disciplines</b>	<b>Mandatory disciplines (conditioned)</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>students' learning of the principles underlying the applied mathematics to solve problems in economics</li> </ul>
<b>Content (description)</b>	<b>CHAPTER I – ELEMENTARY TRANSFORMATIONS. LINEARY EQUATION SYSTEMS</b> <b>CHAPTER II – MATHEMATIC ANALYSIS OF FUNCTIONS WITH SEVERAL VARIABLES</b> <b>CHAPTER III – PROBABILITY THEORY ELEMENTS</b> <b>CHAPTER IV – LINEARY PROGRAMMING</b>

<b>Form of evaluation (E – exam, C – colloquy/final test, CW – control works) E</b>	
<b>Final grade (percentage)</b>	Knowledge evaluation will take into account: 100% - exam

<b>Bibliography</b>	<ol style="list-style-type: none"> <li>1. Blaga P., Mureșan A. – <i>Matematici aplicate în economie</i>, vol. I, Ed. Transilvania Press, Cluj-Napoca, 1996;</li> <li>2. Jaradat M., Mureșan A. – <i>Matematici pentru economiști. Teorie și aplicații</i>, Ed. Risoprint, Cluj-Napoca, 2004;</li> <li>3. Mureșan A. – <i>Matematici aplicate în finanțe, bănci și burse</i>, Ed. Risoprint, Cluj-Napoca, 2000;</li> <li>4. Popescu O., ș.a. – <i>Matematici aplicate în economie</i>, Ed. Didactică și Pedagogică, București, 1998;</li> <li>5. Purcaru I. – <i>Matematici financiare</i>, Vol. I, Ed. Economică, București, 1993;</li> <li>6. Purcaru I. – <i>Matematici financiare</i>, Vol. II, Ed. Economică, București, 1993;</li> <li>7. Râp I., Tulai I. – <i>Matematici aplicate în economie</i>, Ed. Risoprint, Cluj-Napoca, 2000.</li> </ol>				
<b>List of necessary didactic materials</b>	Course support				
<b>Course holder</b>	<b>Didactic degree</b>	<b>Science title</b>	<b>First name</b>	<b>Name</b>	<b>Signature</b>
	PROF.	PhD.	MIHAELA	JARADAT	