

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

DISCIPLINE FILE

Course name	Financial and Actuarial Mathematics				
Course code	EC1203	Year	I	Number of credits	5
		Semester	II		

Faculty	ECONOMICAL SCIENCES	Number of hours in semester /activities		
Profile	ECONOMIC	Total	C	S
Specialization	MB, FB	56	28	28

Course type DF – fundamental, DG – specialized, DC – complementary	DF
Optional course category: DI – imposed, DO – optional, DF – facultative	DI

Prevision disciplines	Mandatory disciplines (conditioned) APPLIED MATHEMATICS IN ECONOMICS, CODE: EC1102
	Recommended ALGEBRA, XI and XII class. MATHEMATICAL ANALYSIS, XI and XII class.
Objectives	- Logical-mathematical thinking development of students. - Analysis of the applicability of mathematics in economics.
Content (description)	CHAPTER 1 - Financial Mathematics. CHAPTER 2 - Actuarial Mathematics. CHAPTER 3 - Theory stocks. CHAPTER 4 - Graph theory.

Form of evaluation (E – exam, C – colloquy/final test, CW – control works) E	
Final grade (percentage)	Knowledge evaluation will take into account: 75% of the exam result 25% activity at the seminars.
Bibliography	1. A. Muresan, Mihaela Abdel Rahman, <i>Applied Mathematics in Finance, banks and exchanges - Vol II</i> , Ed. RISOPRINT, Cluj Napoca, 2003

	<p>2. A. Muresan, Mihaela Abdel Rahman, <i>Applied Mathematics in Finance, banks and exchanges - Vol I</i>, Ed. RISOPRINT, Cluj Napoca, 2001</p> <p>3. Muresan, A.S., <i>Applied Mathematics in finance, insurance, banking, grants</i>, Ed. RISOPRINT, Cluj Napoca, 2001</p> <p>4. Muresan, A.S., <i>Mathematics applied to finance, banks, stock exchanges</i>, Ed RISOPRINT, Cluj Napoca, 2000</p> <p>5. Muresan, A.S., <i>Operational Research, Vol I and II</i>, Ed Lito UBB, Cluj Napoca, 1996</p> <p>6. Muresan, A.S., P. Blaga, <i>Applied Mathematics in Economics, Vol II</i>, Ed PRESS Transilvania, Cluj Napoca, 1996</p> <p>7. Muresan, A.S., <i>Optimize financial operations</i>, Ed. PRESS Transilvania, Cluj Napoca, 1995</p> <p>8. Purcaru, I., <i>Financial Mathematics, Vol I and II</i>, Ed, Bucharest, 1992.</p> <p>9. Muresan, A.S., <i>Mathematics for economists Vol II</i>, Ed.LITO UBB, Cluj Napoca, 1991</p>				
List of necessary didactic materials	<p>Book, course notes, content to solve problems, laptop, videoprojector.</p> <p>Reports of problems in mathematics for economists.</p>				
Course holder	Didactic degree	Science title	First name	Name	Signature
	LECT. UNIV.	DRD.	DANIEL VASILE	BOTIȘ	