

“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

Name of discipline	APPLIED MATHEMATICS IN ECONOMICS				
Code of discipline	EC1102	Year	I	Number of credits	5
		Semester	I		

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

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

Prevision disciplines	Mandatory disciplines (conditioned) -
	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 - Elementary matrix transformations. Systems of Linear Equations. CHAPTER 2 - Mathematical analysis of functions of several variables. CHAPTER 3 - Elements of probability theory. CHAPTER 4 - Linear programming.

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. Mihaela Jaradat, A. Muresan, <i>Mathematics for economists</i> , Theory and Applications, Ed RISOPRINT, Cluj Napoca, 2004 2. Rip, I., Oh God, I, <i>Applied Mathematics in Economics</i> , Ed

	RISOPRINT, 2001. 3. Collectively Department of Applied Mathematics in Economics, <i>Mathematics for economists</i> , Vol I and II, Ed Dacia, Cluj Napoca, 2000. 4. Muresan, AS, P. Blaga, <i>Applied Mathematics in Economics</i> , Vol I and II, Ed PRESS Transilvania, Cluj Napoca, 1996 5. Mihoc M., Applied Mathematics. <i>Linear Algebra</i> , Lito., UBB Cluj Napoca, 1995 6. Muresan AS, <i>Mathematics for economists</i> , Vol II, Lito. UBB, Cluj Napoca, 1991				
List of necessary didactic materials	Book, course notes, content to solve problems, laptop, videoprojector. Reports of problems in mathematics for economists.				
Course holder	Didactic degree	Science title	First name	Name	Signature
	LECTURER	PhD	DANIEL VASILE	BOTIȘ	