COURSE OUTLINE

DENUMIREA DISCIPLINEI APPLIED MATHEMATICS IN ECONOMICS								
ANUL DE STUDIU I		SEMESTRUL	1	STATUTUL DISCIPLINEI (OB-obligatorie/OP-opțională/F-facultativă)			OB	
NUMĂRUL ORELOR PE SAPTĂMÂNĂ		TOTAL ORE SEMESTRU INDIVIDUALA*		Număr de Credite	TIPUL DE EVALUARE (P-pe parcurs, C-colocviu, E-examen, M-mixt)		LIMBA DE PREDARE	
$\begin{array}{c c} \hline c & 3 & \Box \\ \hline 2 & 2 & - \end{array}$	гı. -	56	94	5		M ROMAN		NIAN
TITULARUL DISCIPLINEI		GRADUL DIDACTIC AND STIINTIFIC, PRENUMELE, NUMELE				Catedra		
		Lect. Gheorghe Rusu, PhD, Lect. Marius Spînu, PhD				Business Information Systems		
DISCIPLINE ANTERIOR ABSOLVITE Algebra (9th-11th form) and Mathematical Analysis (11th – 12th form)								
OBIECTIVE		 To coherently and logically introduce notions of mathematics used in economics; To mathematically ground the theory of economic phenomena modelling; To create the skills needed in mathematically modelling and solving some important types of economic phenomena; To qualitatively and quantitatively study types of economic problems, using the studied mathematical problems. 						
TEMATICĂ GENERALĂ		 Elements of liniar algebra; Liniar programming theory; Elements of mathematic analysis applied in economics: The theory of numeric series and of power series; The study of n- variable functions The study of local extreme problems (conditioned and non-conditioned); Improper integrales (particular case: Euler's integrals, type I and II). 						
TEMATICA 1. Applications of elementary transformations; SEMINARILOR / 2. Applications in the study of R ⁿ vectors and of liniar operators; LUCRĂRILOR DE 3. Simplex algorithm, the method of the two phases, transport problems; LABORATOR 4. The study of numeric and power series convergence, the development of function series; 5. Partial differentials of order I and II, differentials of order I and II for n-variab (particular cases n = 2, n = 3); 6. Determining points of local extreme for functions of 2 and 3 variables; Lagrang method; 7. The study of improper integral convergence, applications of Euler integrals;						of functions or n-variable s; Lagrange rals;	s in power s functions multiplier	
METODE DE PREDARE		Classical and interactive teaching (coursebook, practice book, multiple choice test book, both as hard copies and in electronic format, with solved applications and problems proposed to be solved). Interactive solving of proposed problems and exercises; detailed presentation of how to solve complex problems, using the overhead/videoproiector; proposed seminar topic that will be solved individually by the students, followed by discussions.						
Bibliografie obligatorie (selectiv)		 Diaconița, V., Rusu, Gh., Spînu, M., <i>"Matematici aplicate în economie"</i>, Edit. Sedcom Libris, Iaand , 2004; Diaconița, V., Rusu, Gh., Spînu, M., <i>"Matematici aplicate în economie - teste grilă"</i>, Edit. Sedcom Libris, Iaand , 2004; Diaconița, V., <i>"Matematici aplicate în economie - culegere de probleme"</i>, Edit. Paralela 45, ediția IV-a, Pitești, 2004; 						
Evaluare		condiții Exam grade (EG) of at least 5,00; The average between the mid—termevaluation (MTE) and the exam grade (EG) must be of at least 5,00. • Grades obtained for the two semester papers and te eexam grade, respectively						
		crite	• Attend	 Attendance and contribution to the lecture and seminary Other activities that evince the students' interest for the discipline; 				
		form	$\begin{array}{c c} MTE = 0,5 \\ EG = 0,4 \\ the written e \end{array}$	$L_1 + 0.5 \cdot L_2 = -3mc + 0.6 \cdot Gw$	+ A $(A = ap)$ (G_G)	= grade for the multiple c	year, maximum choice test ; G	1 1,5 points) s = grade for
	-	formula notei fina	FG = 0.5. M	1TE + 0,5 . EC	G (FG = fi	nal grade)		