BASIC INFORMATION:

Organisational Unit	FACULTY OF BUSINESS ECONOMICS				
Chair	Department of Mathematics and Applied Mathematics				
		Course/modul			
Code	2.09.11.003.	Decise of system theory and management			
ETCS credits	5	Basics of system theory and management			

COURSE TYPE:

Functional Area	Common ground
Level of Abstraction	Middle
Course Type - Obligation	Mandatory

COURSE REGISTRATION:

Scientific Field	2.	Technical sciences
Scientific Area	2.09.	Computers and IT
Narrow Scientific Field	2.09.11.	Other computing areas

COURSE DESCRIPTION:

Educational goals	Acquisition of basic knowledge in the field of systems theory. Knowledge from this scientific discipline is needed to contribute to the development of a scientific view of the world that will enable macro, meso, at the micro and personal level they are structured by principled attitudes (policies), ways (strategies), systems and subsystems (work processes in the sphere of culture, spirituality, civilization, politics, security, social sphere, technology, economic activity, information and communication connections and relationships, financial transactions, educational activities, etc.), to available resources as input sizes to the most rational, pragmatic, effective and transform more efficiently into output quantities		
Competences/ educational outcomes:	Successful completion of the subject and mastering the material, that is, by adopting the modules of knowledge and skills planned by the curriculum for this subject the student will get to know the basic characteristics of real systems, he will be able to use different systems observes from the aspect of the general theory of systems, such as functioning of economic and business system.		

DEFIN	NING THE TERMS OF THEORY	Y, SYSTEM AND MANAGEMENT. SYSTEM
ELEM	IENTS. MAN, MACHINE,	SYSTEM. CHARACTERISTICS AND
FUNC	CTIONS OF THE SYSTEM. CLA	ASSIFICATION OF SYSTEMS. CYBERNET
SYSTH	EM. MODELS AND METHOI	DS OF ARTIFICIAL SYSTEMS. SYSTEM
MODE	ELING. THE FUTURE OF SYST	'EMS THEORY.

COURSE METRICS:

	Teaching activities (hours)				Individual work		TOTAL		
ETCS	Co les R	ntact sons E	Exercises and trainings	Seminar and stud. papers	Pedagogical workshops	Profess. practice	Individual. and group learning	Source research	Hours of work
5	20	10	30				86	4	150

ACCESS CONDITION

None

COURSE METHODOLOGY

Lectures, auditory exercises and consultations.

TEACHING LANGUAGES

English

STUDENT WORK EVALUATION

No.	Type of Evaluation	Partial/ Final	Elective/ Mandatory	Percentage of participation
01	Participation in activities at lectures and exercises	pre-exam obligation	Mandatory	20 %
02	Exam activities - partial test (problem test)	partial	Optional	35 %
03	Exam activities - final test (problem test, written exam)	final	Mandatory	45 %

LITERATURE

No.	Author	Publication Title	Publisher	Edition Year
1.	B. S. Blanchard	System Engineering Management	Wiley	2016
2.				