## **MODELLO D (inglese)**

General Information			
Academic subject		IEORY FOR BUSINESS	
Degree course	Ma	aster of Science in Marko	eting
Curriculum			
ECTS credits	8		
Compulsory attendance		No	
Language	English		
~	I	Tagu 44	1.00
Subject teacher	Name Surname	Mail address	SSD
	Ada SPIRU	ada.spiru@uniba.it	SECS-P/06
ECTS credits details			
Basic teaching activities			
Class schedule			
Period		2 <sup>nd</sup> semester	
Year		2019-2020	
Type of class	Fron	t lessons, exercises and se	minars
	T		
Time management Hours		5.6	
		56	
Hours of lectures		36	
Tutorials and lab		20	
Academic calendar			
Class begins	May 2020		
Class ends		July 2020	
Class that		vary 2020	
Syllabus			
Prerequisites/requirements			
Expected learning outcomes (according to	Knowledge and understanding		
Dublin Descriptors) (it is recommended that		-	
they are congruent with the learning	This course intro	oduces students to the ba	asic tools of game
outcomes contained in A4a, A4b, A4c tables		on its applications to the o	lecision problems
of the SUA-CdS)	manager may fac	e. The course provides so	ome basic tools and
,		that will be applied to	
		rm competition in olig	
	~ ~	behaviour, to the internal	
	firm and labour co		8
		course the students should	be able to build and
		rical models expressed by t	
		to recognize the strates	
		on problem and a sufficien	
	interactive decision	ni problem and a surficien	i capability of using
	the logic of come	a theory to describe in a	cohematic way the
		e theory to describe in a	
		e theory to describe in a plex situations and to reac	
	behaviour of com		
	behaviour of com	plex situations and to reac	h a final decision.
	Applying knowled  At the end of the o	plex situations and to reachly and understanding course, the student must have	h a final decision.  ave acquired a good
	Applying knowled  At the end of the cability to underst	plex situations and to reachly a situations and to reachly a situations and to reachly a situation and understanding to the student must have a situation and use dynamic materials.	h a final decision.  ave acquired a good odels and schemes
	Applying knowled  At the end of the cability to underst expressed in gam	ge and understanding course, the student must have and and use dynamic me theory formalism in s	h a final decision.  ave acquired a good odels and scheme ituations similar to
	Applying knowled  At the end of the ability to underst expressed in gam those presented in	ge and understanding course, the student must he tand and use dynamic m ne theory formalism in s in the course. The student	h a final decision.  ave acquired a good odels and scheme ituations similar to the must be able to
	Applying knowled  At the end of the cability to underst expressed in game those presented it correctly apply the	ge and understanding course, the student must he tand and use dynamic m ne theory formalism in s in the course. The student e formulation studied in the	h a final decision.  ave acquired a goodels and scheme ituations similar to the must be able to
	Applying knowled  At the end of the ability to underst expressed in gam those presented in	ge and understanding course, the student must he tand and use dynamic m ne theory formalism in s in the course. The student e formulation studied in the	h a final decision.  ave acquired a good odels and scheme ituations similar to the must be able to
	Applying knowled  At the end of the cability to underst expressed in game those presented is correctly apply the modelling of real	ge and understanding course, the student must he tand and use dynamic m ne theory formalism in s in the course. The student e formulation studied in the	h a final decision.  ave acquired a good odels and schemes ituations similar to the must be able to

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	At the end of the course the student must have acquired a good ability to analyse topics and problems of dynamic modelling and strategic interaction.
	Communicating knowledge and understanding
	At the end of the course, the student must have acquired a good ability to clearly communicate their affirmations and considerations regarding the program carried out in class and in-depth on the recommended texts.
	Capacities to continue learning
	At the end of the course the student must have acquired a good capacity for autonomy in studying the discipline, in reading and interpreting cooperative and non-cooperative, static and dynamic models in economics.
Contents	The course unit contents:
	<ul> <li>Introduction to game theory: games and their representations, solving a game.</li> <li>Dominance (strict and weak). Applications: price wars, auctions.</li> <li>Static games and Nash equilibrium. Applications: price and quantity competition, strategic positioning, partnerships.</li> <li>Mixed strategies. Applications: monitoring quality.</li> <li>Dynamic games with perfect information and subgame perfect equilibrium. Applications: bargaining, brand proliferation, strategic moves.</li> <li>Dynamic games with imperfect information and subgame perfect equilibrium. Applications: product differentiation, entry deterrence.</li> <li>Repeated games. Applications: cartels, vertical relations and reputation.</li> </ul>
Course program	
Bibliography	Dixit A.K., Skeath S., Reiley D.H., Games of strategy. New York: W.W. Norton & Company, 2015.
	Osborne, Martin J., An introduction to game theory. New York: Oxford university press, 2009.
Notes	Some basic knowledge of microeconomics (utility function, cost functions) is required. Although technical difficulties will be kept at minimum, some basic knowledge of mathematical analysis, like finding maxima of simple functions (through derivatives), will be helpful.
Teaching methods	The course is organized in a series of standard lectures, some practice sessions, dedicated to the solution of problems and exercises combines with class discussions/problem sets, and group presentation of previously paper assigned.
	Teaching and learning strategies:
	<ul> <li>Lecturing</li> <li>Problem based learning</li> <li>Case studies</li> </ul>

Assessment methods (indicate at least the type written, oral, other)	Written Exam - 75%  Group Paper Presentation - 25%  The written final exam will consist of exercises and multiple-choice questions from the textbook, class handouts and case studies discussed.
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are.	At the end of the course the student evaluation will be based on:  1) the ability of translation an economic problem into a game;  2) the ability of solving the game using the solution concepts introduced during the course;  3) the ability of giving an economic interpretation to the solutions of the game;  4) develop a critical ability and the capacity to formulate research questions and to develop research autonomously;  5) conduct work in groups and present the results in public.
Further information	

