

COURSE NAME: OPTIMIZATION AND SIMULATION IN BUSINESS		
: BUSINESS ADMINISTRATION / FINANCE AND ACCOUNTING	YEAR: 3	TERM: 2

TIMETABLE FOR THE COURSE

WEEK	SESSION	SESSION DESCRIPTION	GROUP		CLASS IN THE COMPUTER ROOM)	STUDENT WORK DURING THE WEEK		
			LARGE	SMALL		DESCRIPTION	HOURS AT CLASS	WORK HOURS DURING THE WEEK
1	1	Chapter 1. Introduction.	X			Study of Chapter 1.	1.5	3
1	2	Practical activity 1. Introduction to Solver in Excel.		X	Computer room	Introduction to Solver in Excel. Search for OR examples in business and society.	1.5	
2	3	Chapter 2. Optimization of linear problems: models and optimality.	X			Study of Chapter 2.	1.5	5
2	4	Practical activity 2. Modelling and solving linear problems.		X	Computer room	Exercises of Chapter 2. Search for OR examples in business and society.	1.5	
3	5	Chapter 2. Optimizing linear problems: modelling and solving.	X			Study of Chapter 2..	1.5	5
3	6	Practical activity 3. Modelling and solving linear problems.		X	Computer room	Exercises of Chapter 2.	1.5	
4	7	Chapter 2. Optimizing Linear Problems: sensitivity analysis.	X			Study of Chapter 2.	1.5	5
4	8	Practical activity 4. Sensitivity Analysis.		X	Computer room	Exercises of Chapter 2.	1.5	
5	9	Chapter 3. Optimization of discrete models: modelling	X			Study of Chapter 3..	1.5	5
5	10	Practical activity 5. Modeling discrete optimization problems.		X	Computer room	Exercises of Chapter 3. Search for OR examples in business and society.	1.5	
6	11	Chapter 3. Optimizing discrete models: logic conditions.	X			Study of Chapter 3.	1.5	5
6	12	Practical activity 6. Solving Discrete Problems.		X	Computer room	Exercises of Chapter 3.	1.5	
7	13	Chapter 3. Optimization of discrete models: solving.	X			Study of Chapter 3.	1.5	5
7	14	Practical activity 7. Mixed Integer Linear Problems: Modelling and solving.		X	Computer room	Exercises of Chapter 3.	1.5	
8	15	Chapter 4. Optimization of unconstrained nonlinear problems.	X			Preparation of the first midterm exam.	1.5	5
8	16	Practical activity 8. First midterm exam. Chapters 1, 2 and 3.		X	Computer room	Exercises of Chapter 3.	1.5	
9	17	Chapter 4. Optimization of nonlinear problems: modelling and optimaity.	X			Study of Chapter 4.	1.5	5
9	18	Practical activity 9. Nonlinear problems. Modelling and solving.		X	Computer room	Exercises of Chapter 4. Search for OR examples in business and society.	1.5	
10	19	Revision day. Chapters 1, 2, 3 and 4.	X			Study chapters 1, 2, 3 and 4.	1.5	5
10	20	Practical activity 10. Nonlinear problems. Modelling and solving.		X	Computer room	Exercises of Chapter 4.	1.5	
11	21	Chapter 5. Simulation.	X			Study of Chapter 5.	1.5	5
11	22	Practical activity 11. Simulation in a real situation.		X	Computer	Exercises of Chapter 5.	1.5	

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12	23	Chapter 5. Simulation.	X			Study of Chapter 5.	1.5	5
12	24	Practical activity 12. Simulation in a real situation.		X	Computer room	Exercises of Chapter 5.	1.5	
13	25	Chapter 5: Simulation.	X			Deadline for Homework	1.5	5
13	26	Practical activity 13. Simulation problems. Modelling and solving.		X	Computer room	Study of Chapter 5.	1.5	
14	27	Practical activity 14. Second midterm exam. Chapters 4 and 5.		X	Computer room	Preparation of Assignment 2. Chapter 5.	1.5	5
14	28	Revision day. Preparation for final exam.	X			Preparation of final exam.	1.5	
SUBTOTAL							42	+ 68 = 110
15		Extra tests and clases, tutoring, others						10
16-18		Preparation for exams					3	27
TOTAL								150