



COURSE: Multivariate Techniques for Data Analysis		
DEGREE: Business Administration	YEAR: 3	TERM: 1

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		Special room for session (computer classroom, audio-visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	CHAPTER 1. REVISION of elements of statistics	X			Study of the material of CHAPTER 1	1,5	6
1	2	Tutorial 1: Examples and revision of basic concepts of Statistics.		X	Computer classroom	Study of the material of CHAPTER 1	1,5	
2	3	CHAPTER 2. FUNDAMENTALS of Statistical Software (I). Introduction to Microsoft Excel	X			Study of the material of CHAPTER 2 (I)	1,5	6
2	4	Tutorial 2: Introduction to Microsoft Excel		X	Computer classroom	Study of the material of CHAPTER 2 (I)	1,5	
3	5	CHAPTER 2. FUNDAMENTALS of Statistical Software	X			Study of the material of CHAPTER 2 (II)	1,5	6

		(II). Ranges and expressions with Excel						
3	6	Tutorial 3: Ranges and expressions with Excel		X	Computer classroom	Study of the material of CHAPTER 2 (II)	1,5	
4	7	CHAPTER 2. FUNDAMENTALS of Statistical Software (III). Matrices with Excel. Excel Add-Ins	X			Study of the material of CHAPTER 2 (III)	1,5	6
4	8	Tutorial 4: Matrices with Excel. Excel Add-Ins		X	Computer classroom	Study of the material of CHAPTER 2 (III)	1,5	
5	9	CHAPTER 3. MULTIDIMENSIONAL data (I). The data matrix. Different types of data	X			Study of the material of CHAPTER 3 (I)	1,5	6
5	10	Tutorial 5: Multidimensional data with Excel		X	Computer classroom	Study of the material of CHAPTER 3 (I)	1,5	
6	11	CHAPTER 3. MULTIDIMENSIONAL data (II). Summary statistics	X			Study of the material of CHAPTER 3 (II)	1,5	6
6	12	Tutorial 6: Summary statistics with Excel		X	Computer classroom	Study of the material of CHAPTER 3 (II)	1,5	
7	13	CHAPTER 3. MULTIDIMENSIONAL data (III). Linear combinations	X			Study of the material of CHAPTER 3 (III)	1,5	6
7	14	Tutorial 7: Linear combinations with Excel		X	Computer classroom	Study of the material of CHAPTER 3 (III)	1,5	
8	15	CHAPTER 4. PRINCIPAL components (I). Motivation and construction	X			Study of the material of CHAPTER 4 (I)	1,5	6
8	16	Tutorial 8: Principal components with Excel (I)		X	Computer classroom	Study of the material of CHAPTER 4 (I)	1,5	
9	17	CHAPTER 4. PRINCIPAL components (II). Standardized case	X			Study of the material of CHAPTER 4 (II)	1,5	6
9	18	Tutorial 9: Principal components with Excel (II)		X	Computer classroom	Study of the material of CHAPTER 4 (II)	1,5	
10	19	CHAPTER 5. POPULATION concepts and sampling. The normal distribution	X			Study of the material of CHAPTER 5	1,5	6

10	20	Tutorial 10: Introduction to simulation techniques		X	Computer classroom	Study of the material of CHAPTER 5	1,5	
11	21	CHAPTER 6. SIMULATION techniques (I). Univariate and multivariate normal distributions.	X			Study of the material of CHAPTER 6 (I)	1,5	6
11	22	Tutorial 11: Exercises and applications of simulation with Excel (I)		X	Computer classroom	Study of the material of CHAPTER 6 (I)	1,5	
12	23	CHAPTER 6. SIMULATION techniques (II). Univariate and multivariate normal distributions.	X			Study of the material of CHAPTER 6 (II)	1,5	6
12	24	Tutorial 12: Exercises and applications of simulation with Excel (II)		X	Computer classroom	Study of the material of CHAPTER 6 (II)	1,5	
13	25	CHAPTER 7. CASE analysis with real data (I)	X			Case analysis (I)	1,5	6
13	26	Tutorial 13: Case analysis (I)		X	Computer classroom	Case analysis (I)	1,5	
14	27	CHAPTER 7. CASE analysis with real data (II)	X			Case analysis (II)	1,5	6
14	28	Tutorial 14: Case analysis (II)		X	Computer classroom	Case analysis (II)	1,5	

Subtotal 1 **42** **84**

Total 1 (Hours of class plus student homework hours between weeks 1-14) **126**

15		Pending classes and tutorials						12
16		Preparation of final assessment. Exam.						
17							3	9
18								

Subtotal 2 **3** **9**

Total 2 (Hours of class plus student homework hours between weeks 15-18) **24**

TOTAL (Total 1 + Total 2)							150
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