Vicerrectorado de Estudios Apoyo a la docencia y gestión del grado

DEGREE: Bachelor's Degree in Management and Technology

COURSE: Research techniques for prediction

YEAR: 4

TERM: 2

			Wi	EEKLY P	LANNING			
	s			CHING rk X)		WEEKLY PROGRAMMING FOR STUDENT		
W E E K	E S I O N	DESCRIPTION	L E C T U R E	S E M I N A R	SPECIAL ROOM FOR SESION (computer classroom, audio-visual classroom)	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Introduction to time series	х			Study of Sections 1.1 to 1.3. Search for examples of time series	1,5	6,5
	2	Introduction to software for time series analysis		х		Use of software for time series analysis	1,5	
3	3	Decomposition of time series (2.1 to 2.3)	Х			Study of Sections 2.1 to 2.3	1,5	6,5
	4	Time series decomposition exercises		х		Resolution of exercises	1,5	0,5
	5	Decomposition of time series (2.3 to 2.5)	Х			Study of Sections 2.3 to 2.5	1,5	6,5
	6	Time series decomposition exercises		х		Resolution of exercises	1,5	0,5
	7	Exponential smoothing techniques (2.6)	Х			Study of Section 2.6	1,5	
4	8	Lab 1 - Descriptive analysis, decomposition and exponential smoothing techniques		х		Laboratory assignment & Group tutorial	1,5	6,5
5 6	9	ARIMA models (3.1 to 3.4)	х			Study of Sections 3.1 to 3.4	1,5	6,5
	10	Exercises of ARIMA models		х		Resolution of exercises	1,5	0,5
	11	ARIMA models (3.5 to 3.6)	Х			Study of Sections 3.5 to 3.6	1,5	6,5
	12	Exercises of ARIMA models		Х		Resolution of exercises	1,5	0,5
7	13	Seasonal ARIMA models (3.7)	Х			Study of Section 3.7	1,5	6,5
	14	Exercises of seasonal ARIMA models		х		Resolution of exercises	1,5	
8	15	Prediction with ARIMA models (3.8)	Х			Study of Section 3.8	1,5	6,5
	16	Lab 2 - Estimation, selection and prediction with ARIMA models		х		Laboratory assignment	1,5	
9	17	Advanced prediction methods (4.1 to 4.2)	х			Study of Sections 4.1 to 4.2	1,5	CF
	18	Exercises of VAR models and dynamic regression		Х		Resolution of exercises	1,5	6,5
10	19	Advanced prediction methods (4.3)	Х			Study of Section 4.3	1,5	6,5
10	20	Exercises of dynamic factor models		х		Resolution of exercises	1,5	
11	21	Advanced prediction methods (4.4)	х			Study of Section 4.4	1,5	6,5
11	22	Lab 3 - Use of advanced prediction methods		Х		Laboratory assignment	1,5	
12	23	Conditional heteroscedasticity models (5.1 to 5.3)	х			Study of Sections 5.1 to 5.3	1,5	6,5
	24	Exercises of conditional heteroscedasticity models		Х		Resolution of exercises	1,5	
	25	Conditional heteroscedasticity models (5.1 to 5.3)	Х			Study of Sections 5.1 to 5.3	1,5	
13	26	Lab 4 - Estimation, selection and prediction with GARCH models		х		Laboratory assignment	1,5	6,5
14	27	Review class and preparation for evaluations	х			Exam preparation & Group tutorial	1,5	
	28	Defense of the prediction project		х		Presentation and defense of the prediction project	1,5	6,5
					1	Subtotal 1	42	91
		Total 1 (Hours of class plus student homework)						33
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15		Tutorials, handing in, etc					3,6	-
16 17 18		Assessment					3	10
10				l		Subtotal 2	6,6	10
	Total 2 (Hours of class plus student homework)							7
TOT	TOTAL ( Maximun 150 horas )							
( <u></u>							1.	50