Universidad Carlos III de Madrid

SUBJECT: INTELLIGENT DATA ANALYSIS		
MASTER DEGREE: MASTER SCIENCE AND TECHNOLOGY	ECTS: 3	QUARTER: 2

TIMETABLE FOR THE SUBJECT								
WEEK	SESSION	DESCRIPTION OF EACH SESSION	GROUP (X mark)		Indicate if a different lecture room is needed (computer. audiovisual. etc.)	HOMEWORK PER WEEK		
			1	2		DESCRIPTION	ATTENDING HOURS	HOMEWORK Max. 7H/WEEK
1	1	0. Introduction. 1.1. Fundamental concepts of data analysis.	X			Assistance	1.67	2
2	2	1.2. Data processing. 1.3. Visual data analysis	X			Assistance and study	1.67	4
3	3	Practical case: data processing and visualization	X		Computing lab.	Assistance. study and preparation case study	1.67	4
4	4	1.4. Methodology and application areas. 1.5. Real use cases.	X			Assistance. study and preparation case study	1.67	4
5	5	Discussion and presentation of a real use case.	X			Assistance. study and preparation case study	1.67	4
6	6	2.1. Attribute selection and transformation. 2.2. Segmentation. prediction and pattern discovery.	X			Assistance. study and preparation case study	1.67	4

7	7	2.3. Advanced techniques for data analysis.	X			Assistance. study and preparation case study	1.67	5
8	8	2.4. Business intelligence tools. 2.5. Comparison of techniques and parameters. Practical case: machine learning.	X		Computing lab.	Assistance. study and preparation case study	1.67	5
9	9	3.1. Text analysis.	X			Assistance. study and preparation case study	1.67	5
10	10	3.2. Time series analysis. 3.3. Other domains.	X			Assistance. study and preparation case study	1.67	5
11	11	4.0. Presentation of a practical case. 4.1. Lading and data processing.	X		Computing lab.	Preparation case study	1.67	5
12	12	4.2. Data analysis sequence application. 4.3. Results preparation and conclusions.	X		Computing lab.	Preparation case study	1.67	5
13	13	Presentation and defense of practical cases.	X			Preparation case study and defense	1.67	6
14	14	Presentation and defense of practical cases.	X			Preparation case study and defense	1.67	6
TOTAL HOURS							23.38	64