Universidad Carlos III de Madrid

POSTGRADUATE STUDIES

COURSE NAME (B-LEARNING GROUP): Big data. Technical Data Analysis			
MASTER PROGRAMME: Archives, Librarys and Digital Continuity	YEAR: 1	TERM: [1-2]	ECTS: [3]

WEEK	CONTENT DESCRIPTION Professor/s * Jesús Robledano Arillo	Indicate needs other than the class recording classroom	WEEKLY PROGRAMMING FOR STUDENT		
			DESCRIPTION	CLASS HOURS (Date of class)	HOMEWORK HOURS (Max. 10h week)
1	Presentation. Presentation of practical work, final practical work, lectures and debates, delivery schedule of activities and evaluation system.		Presentation		10
2	**Module 1. Introduction to Big data. Basic fundamentals. Concepts** 1.1. Big data in the context of records management. 1.2. New trends in data management. Big data and Smart data		Reading and studying the teaching materials.		10
3	1.3. Big data in the strategies of public and private organizations 1.4. Trends, policy, issues and initiatives		Practice 1		10
4	**Module 2.- Data analysis and filtering techniques.** 2.1. Data quality audit 2.2. Structured and unstructured data testing tools. Introduction to Open Refine		Reading and studying the teaching materials.		10
5	2.3. Unstructured data mining		Reading and studying the teaching materials.		10
6	2.4. Predictive models in data mining		Practice 2		10
7	**Module 3. Toolkit for data visualization** 3.1. Towards the semantic web. Processing and data binding. 3.2. Linked data techniques. Using web services to link databases		Reading and studying the teaching materials.		10
8	3.3. Analysis and information extraction. Open source solutions		Reading and studying the teaching materials.		10
9	3.4. Project development processing and data visualization. Case Study		Practice 3		10
10	Resit, tutorials, delivery of final classwork				
11	Evaluation and final activities				

*** Give all teachers who will participate in each session**

TOTAL		

*** Give all teachers who will participate in each session**