Universidad Carlos III de Madrid

DENOMINACIÓN ASIGNATURA: Data Intensive Computing		
POSTGRADO: MÁSTER UNIVERSITARIO EN Profesor/a: Jesús Carreterro	ECTS: 6	CUATRIMESTRE: 1

CRONOGRAMA DE LA ASIGNATURA (versión detallada)

SEMANA	SESIÓN	DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN (En su caso, incluir las recuperaciones, tutorías, entrega de trabajos, etc)	GRUPO (marcar X)		Indicar espacio Necesario distinto aula (aula informática, audiovisual, etc..)	TRABAJO DEL ALUMNO DURANTE LA SEMANA		
			1	2		DESCRIPCIÓN	HORAS PRESENCIALES	HORAS TRABAJO Semana Máximo 7 H
1		Parallel and distributed computing paradigms	X				1,7	
1		Parallel and distributed computing paradigms	X		X		1,7	4
2		Parallel and distributed computing paradigms. Shared memory	X				1,7	
2		Parallel and distributed computing paradigms. Distributed memory	X		X		1,7	4
3		Exercises	X				1,7	
3		Lab 1. Data parallelism using OpenMP	X		X		1,7	4

4		Exercises	X				1,7	
4		Lab 2. Data parallelism using MPI	X		X		1,7	4
5		Data-intensive computing platforms	X				1,7	
5		Data-intensive computing platforms	X		X		1,7	4
6		Data-intensive computing platforms	X				1,7	
6		Data-intensive computing platforms	X		X		1,7	4
7		High-Performance Computing platforms for Big Data	X				1,7	
7		High-Performance Computing platforms for Big Data	X		X		1,7	4
8		High-Performance Computing platforms for Big Data	X				1,7	

8		High-Performance Computing platforms for Big Data	X		X		1,7	4
9		High-Performance Computing platforms for Big Data	X				1,7	
9		Lab 3. Data intensive processing using Spark SQL	X		X		1,7	4
10		In-memory computing.	X				1,7	
10		In-memory computing	X		X		1,7	4
11		Exercises	X				1,7	
11		Lab 4. Data intensive processing using Spark SQL	X		X		1,7	4
12		Fault-tolerance and resilience	X				1,7	
12		Fault-tolerance and resilience	X				1,7	4

13		Students Presentations	X				1,7	
13		Students Presentations	X				1,7	4
14		Students Presentations	X				1,7	4
14		Students Presentations	X				1,7	4
TOTAL							23,8	60
EVALUATION PREPRARATION and EXAMS							4	10
TOTAL							27,8	70