

COURSE: Multimedia		
DEGREE: Computer Science and Engineering	YEAR: 4	TERM: 1

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Presentation Introduction to Multimedia. Multimedia vs. Hipermedia	X			Review of contents	1,66	6,5
	2	Block 1. Multimedia contents digitalization	X			Review of contents	1,66	
2	3	Block 1. Multimedia contents digitalization	X			Review of contents	1,66	6,5
	4	Block 1. Multimedia contents digitalization	X			Review of contents	1,66	
3	5	Block 4. Coding of the Auditory Modality	X			Review of contents	1,66	6,5
	6	Lab assignment 1: digital contents representation with Matlab		X	Lab room	Work in laboratory practice	1,66	
4	7	Block 1. Multimedia contents digitalization	X			Review of contents	1,66	6,5
	8	Block 1. Coding of the Auditory Modality	X			Review of contents	1,66	
5	9	Block 1. Coding of the Visual Modality	X			Review of contents	1,66	6,5
	10	Lab assignment 2: Analysis and characterization of audio coding stages with matlab		X	Lab room	Work in laboratory practice	1,66	
6	11	Block 1. Coding of the Visual Modality	X			Review of contents	1,66	6,5
	12	Lab assignment 3: Analysis and characterization of image and video coding stages with matlab		X	Lab room	Work in laboratory practice	1,66	
7	13	Block 1. Coding of the Visual Modality	X			Revisar conceptos	1,66	6,5
	14	Lab assignment 3: Analysis and characterization of image and video coding stages with matlab		X	Lab room	Work in laboratory practice	1,66	
8	15	Final Review Lab project (Block 1)		X	Lab room	Final Review Lab project (Block 1)	1,66	6,5
	16	Block 1. Partial Exam	X			Block 1. Partial Exam	1,66	
9	17	Block 2. Text coding (Natural Language Processing)	X			Review of contents	1,66	6,5
	18	Block 2. Introduction to the practical case. Work methodology and generic R1 architectures		X	Lab room	Work in laboratory practice	1,66	
10	19	Block 2 Text coding (Natural Language Processing)	X			Review of contents	1,66	6,5
	20	Block 2 Practice: Collection and preprocessing of the collection of documents to be indexed in the system		X	Lab room	Work in laboratory practice	1,66	
11	21	Block 2. Preprocessing and representation models of a collection (Boolean, vectorial model, etc.)	X			Review of contents	1,66	6,5
	22	Block 2. Practice: Selection of the IR system (Lucene, Elasticsearch, etc.). Definition of architecture and processes on documents		X	Lab room	Work in laboratory practice	1,66	
12	23	Block 2. Indexing and storage of contents.	X			Review of contents	1,66	6,5
	24	Block 2 . Practice: Construction and parameterization of the index of the collection in the IR system		X	Lab room	Work in laboratory practice	1,66	
13	25	Block 2 . Consultation of multimedia contents	X			Review of contents	1,66	6,5
	26	Block 2 . Practice: implementation of the queries in the IR system. Analysis and debugging of queries		X	Lab room	Work in laboratory practice	1,66	
14	27	Block 2 . Multimedia IR evaluation models	X			Review of contents	1,66	6,5
	28	Block 2 . Practice: Evaluation of the IR system according to the gold standard. Error analysis		X	Lab room	Work in laboratory practice	1,66	
29	29	Final review of practical cases. Block 2		X	Lab room	Work in laboratory practice	1,66	3,25
Subtotal 1							48	94
Total 1 (Hours of class plus student homework)							142	
15		Tutorials, handing in, etc					3,6	-
16		Assessment					4	10
17								
18								
Subtotal 2							8	10
Total 2 (Hours of class plus student homework)							18	
TOTAL (Maximum 160 horas)							160	