



COURSE: MULTIMEDIA INFORMATION CODING IN COMMUNICATIONS		
DEGREE: ENGINEERING IN COMMUNICATIONS SYSTEMS	YEAR: 3RD	TERM: 1ST

WEEKLY PROGRAMMING									
WEEK	SESSION	DESCRIPTION	GROUPS		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers: Maximum 4 sessions	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURE	SEMINAR			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS Maximum 7 H
1	1	Course introduction	X				Revision of didactic materials and location of bibliographic recommendations.	1,5	2
1	2	T0. Multimedia Information Digitalization		X			T0. Revision of class slides and working autoevaluation quizzes out.	1,5	
2	3	T1. Speech Coding T1.1. Introduction T1.2. Coding strategies: vocoders.	X				T1. Recommended readings study and working out autoevaluation quizzes out.	1,5	4
2	4	T1. Speech Coding T1.3. Coding strategies: waveform coding T0. Multimedia Information Digitalization Solutions to the autoevaluation quizzes.		X				1,5	
3	5	T1. Speech Coding T1.4. Coding strategies: hibrid coding. T1.5. Estandards	X				P1. Lab assignment preparation. Matlab tutorial, if adequate.	1,5	2
3	6	P1. Speech Coding (first session)		X	Lab			1,5	
4	7	T2. Audio Compression T2.1 Introduction T2.2. Auditory perception	X				P1. Preparation of a doubts list.	1,5	2
4	8	P1. Speech coding (second session): evaluation		X	Lab	X		1,5	
5	9	T2. Audio Compression T2.3. Lossless audio compression					T2. Recommended readings study and working out autoevaluation quizzes out.	1,5	4
5	10	T2. Audio Compression						1,5	

		T2.3. Lossy audio compression T1. Speech coding Solutions to the autoevaluation quizzes.							
6	11	T3. Image coding T3.1. Introduction T2. Audio Coding Solutions to the autoevaluation quizzes..					P2. Lab assignment preparation.	1,5	2
6	12	P2. Audio Compression (first session)		X	Lab			1,5	
7	13	T3. Image coding T3.2. Coding strategies	X				P2. Preparation of a doubts list.	1,5	2
7	14	P2. Audio Compression (second session): evaluation		X	Lab	X		1,5	
8	15	T3. Image coding T3.2. Coding strategies	X				T3. Recommended readings study and working out autoevaluation quizzes out.	1,5	4
8	16	T3. Image coding T3.3. Standards Solutions to the autoevaluation quizzes.		X				1,5	
9	17	T3. Image coding T3.3. Standards	X				P3. Lab assignment preparation.	1,5	
9	18	P3. Image coding (primera parte)		X	Lab			1,5	
10	19	T4. Video coding T4.1. Introduction T4.2. Coding strategies	X				P3. Preparation of a doubts list.	1,5	
10	20	P3. Image coding (segunda parte): evaluación		X	Lab	X		1,5	
11	21	T4. Video coding T4.2. Coding strategies	X				T4. Recommended readings study and working out autoevaluation quizzes out.	1,5	
11	22	T4. Video coding T4.3. Quality evaluation methods T3. Image coding Solutions to the autoevaluation quizzes.		X				1,5	
12	23	T4. Video coding T4.4. Standards	X				P4. Lab assignment preparation	1,5	
12	24	P4. Video coding (primera parte)		X	Lab			1,5	
13	25	T5. Transmission of coded multimedia information T5.1. Introduction	X				P4. Preparation of a doubts list.	1,5	
13	26	P4. Video coding (segunda parte): evaluación		X	Lab	X		1,5	
14	27	T5. Transmission of coded multimedia information T5.2. Multimedia communications systems	X				T5. Recommended readings study and working out autoevaluation quizzes out.	1,5	
14	28	T5. Transmission of coded multimedia information T5.3. Examples of multimedia systems Solutions to the autoevaluation quizzes.		X				1,5	
SUBTOTAL								42	+ 68 = 110
15		Tutorials, Handing in, etc					Exam preparation and failed lab assignments subsanation.		
16-18		Assessment						3	
TOTAL								150	

LABORATORIES CLASSES PROGRAMMING*						
SESSI ON	WEEK	DESCRIPTION	LABORATORY	WEEKLY PROGRAMMING FOR STUDENT		
				DESCRIPTION	CLASS HOURS	HOMEW ORK HOURS Maximu m 7 H
1	4	P1. Speech Coding		P1. Lab assignment preparation.	1,5	
2	7	P2. Audio Compression		P2. Lab assignment preparation.	1,5	
3	10	P3. Image Coding		P3. Lab assignment preparation.	1,5	
4	13	P4. Video Coding		P4. Lab assignment preparation.	1,5	
TOTAL						

* 6 hours of complementary laboratories classes in EPS