



<b>COURSE: VIDEO SYSTEMS ENGINEERING</b>		
<b>DEGREE: AUDIOVISUAL SYSTEM ENGINEERING</b>	<b>YEAR: 2019/2020</b>	<b>TERM: 1</b>

*La asignatura tiene 29 sesiones que se distribuyen a lo largo de 14 semanas. Los laboratorios pueden situarse en cualquiera de ellas. Semanalmente el alumno tendrá dos sesiones, excepto en un caso que serán tres*

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	Topic 1: Light, color and Human Visual System	X				Study of the course materials and analysis of bibliographic references.	1,6	3
1	2	Topic 2: A general introduction to Audiovisual Systems (I)		X			Study of the course materials and analysis of bibliographic references.	1,6	
2	3	Topic 2: A general introduction to Audiovisual Systems (II)					Study of the course materials and analysis of bibliographic references.	1,6	
2	4	Topic 3: Generation of TV images		X			Study of the course materials and analysis of bibliographic references	1,6	
3	5	Topic 4: Baseband Video Stream	X				Study of the course materials and analysis of bibliographic references.	1,6	

3	6	Exercises Topics 1-4		X			Solve Exercises.	1,6	
4	7	Topic 5: Sampling in Video and Video Interfaces (SDI)	X				Study of the course materials and analysis of bibliographic references.	1,6	3
4	8	Topic 6: Digital Video Measures (I)		X			Study of the course materials and analysis of bibliographic references.	1,6	
5	9	Topic 6: Digital Video Measures (II)	X				Study of the course materials and analysis of bibliographic references	1,6	3
5	10	Topic 7: Synchronization and Time Codes		X			Study of the course materials and analysis of bibliographic references	1,6	
6	11	Topic 8: Processing in professional TV cameras. (I)	X				Study of the course materials and analysis of bibliographic references	1,6	3
6	12	Topic 8: Processing in professional TV cameras. (II)		X			Study of the course materials and analysis of bibliographic references	1,6	
7	13	Lab Session 1: TV Studio: - Study of signals and measures in video. - Magnetoscopes	X			<b>Lab.</b> 4.0B01 B	Writing a report as proposed in the guidelines.	1,6	6
7	14	Topic 9: Storage Systems (Magnetic Disks)		X			Study of the course materials and analysis of bibliographic references	1,6	
8	15	Topic 10: Storage Systems (Hard Drives)	X				Study of the course materials and analysis of bibliographic references	1,6	6
8	16	Exercises Topics 5-10		X			Solve Exercises.	1,6	
9	17	Partial Exam Topics 1-10	X				Evaluation	1,6	5
9	18	Topic 11: Motion Estimation (I)		X			Study of the course materials and analysis of bibliographic references	1,6	
10	19	Topic 11: Motion Estimation (II)	X				Study of the course materials and analysis of bibliographic references	1,6	5
10	20	Lab. Session 3: Motion Estimation		X		<b>Lab.</b> 4.0B01 A/C	Study of the questions proposed in the guidelines	1,6	
11	21	Topic 12: Transitions in video editing and indexing	X				Study of the course materials and analysis of bibliographic references	1,6	5
11	22	Lab. Session 4: Transitions in video indexing		X		<b>Lab.</b> 4.0B01 A/C	Study of the questions proposed in the guidelines	1,6	
12	23	Topic 13: Stereoscopic vision and video 3D	X				Study of the course materials and analysis of bibliographic references	1,6	5
12	24	Lab. Session 5: Stereoscopic vision and video 3D		X		<b>Lab.</b> 4.0B01 A/C	Study of the questions proposed in the guidelines	1,6	

13	25	Topic 13: Video Format Conversion	X			Study of the course materials and analysis of bibliographic references	1,6	5
13	26	Lab. Session 6: Video Format Conversion		x	Lab. 4.0B01 A/C	Study of the questions proposed in the guidelines	1,6	
14	27	Exercises: Video Processing	X			Solve Exercises.	1,6	6
14	28	Partial Exam: Video Processing				Evaluation	1,6	
8	29	Lab. Session 1 A TV studio: - Study of video signals and measures. - Magnetoscopes		X	Lab. 4.0B01 B	Write a report answering the questions proposed in the session guideline.	1,6	3
<b>Subtotal 1</b>							<b>48,33</b>	<b>67</b>
<b>Total 1 (Hours of class plus student homework hours between weeks 1-14)</b>							<b>115.33</b>	

15		Tutorials, handing in, etc						10
16		Assessment						
17								
18								20
<b>Subtotal 2</b>								<b>30</b>
<b>Total 2 (Hours of class plus student homework hours between weeks 15-18)</b>							<b>30</b>	

<b>TOTAL (Total 1 + Total 2. <u>Maximum 180 hours</u>)</b>							<b>145.33</b>	
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