



COURSE: Displays Technologies

DEGREE: Audiovisual System Engineering

YEAR: 4º

TERM: 2º

WEEKLY PROGRAMMING

WEEK	SESSION	DESCRIPTION	GROUPS		Special Room for Session (computer class room laboratory, etc..)	Indicate YES/NO If the session needs 2 teachers: Maximum 4	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURE	SEMINAR			DESCRIPTION	CLASS HOURS	HOMEWORKS HOURS Maximum 7 H
1	1	Introduction. Review of basic concepts	X			NO	Study the lesson	1,66	2
2	2	<u>Merit parameteres of displays:</u> Brightness, contrast, resolution, color, video frequency, grey scale, ...		X		NO	Study the lesson. Examples resolution	1,66	2
3	3	<u>Emisive Displays technologies:</u> Plasma., LED, OLEDs, FEP, etc	X			NO	Study the lesson. Examples resolution	1,66	3
4	4	<u>Liquid crystal materials.</u> Properties, basic configurations and phases		X		NO	Study the lesson	1,66	2
5	5	<u>Liquid crystal materials.</u> Electrical modeling and basic properties. Practical circuits	X			NO	Study the lesson. Examples resolution	1,66	3
6	6	<u>Liquid crystal materials.</u> Electrical and optical modeling and basic configurations		X		NO	Study the lesson.	1,66	3
7	7	<u>Non-emisive Displays Technologies.</u> Active & Pasive matrix LCD, Electrochromics, Electrophoretics	X			NO	Study the lesson. Examples resolution of practice 1.	1,66	3

8	8	PRACTICE 1. Electrooptical Characterization of displays (I)		X	LAB	YES	Study the lesson. Examples resolution	1,66	2
9	9	Evaluation Exam part 1: Merit parameters, E/O characterization, emissive and non-emissive displays	X			NO	Review and evaluation of previous subjects	1,66	3
10	10	<u>Other displays technologies</u> ; HUD, 3D, HDTV, proyección, e-book, etc.		X		NO	Study the lesson	1,66	3
11	11	<u>Displays applications (I)</u> : HUD, e-books, ...	X			NO	Study the lesson	1,66	3
12	12	PRACTICE 2. Electrooptical Characterization of displays (II)		X	LAB	YES	Study the lesson. Examples resolution of practice 2.	1,66	
13	13	<u>Displays applications (II)</u> : aeroespacial, biomedicine	X			NO	Study the lesson. Practical Examples	1,66	3
14	14	<u>Displays applications (II)</u> : Assistive technologies. Study of practical cases		X		NO	Study the lesson. Practical Examples	1,66	
15	15	<u>General review</u>		X		NO		1	
Subtotal 1								24,24	35
Total 1 (Classroom hours and homeworks between 1-14 weeks)								58,24	
Group tutorial Tutorials, Handing in, etc				X				1,66	
Review and preparation. Assessment.								3	
Subtotal 2								3	15
Total 2 (Classroom hours and homeworks between 15-18 weeks)								19,66	
TOTAL (Total 1 + Total 2. Maximum 180 hours)								78	

* SESIÓN EXTRA EN HORARIO HABITUAL DE GRUPO REDUCIDO