



COURSE: DEEP LEARNING FOR IMAGE ANALYSIS		
DEGREE: TELECOMMUNICATION TECHNOLOGIES ENGINEERING	YEAR: 2019/2020 (COURSE 4)	TERM: 1

PLANIFICACIÓN SEMANAL DE LA ASIGNATURA								
WEEK	SESSION	DESCRIPTION	GRUPO (marcar X)		SPECIAL ROOM FOR SESSION (Computer class- room, audiovisual class-room)	TRABAJO SEMANAL DEL ALUMNO		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. Estim. 3,25 h)
1	1	Unit 1: Basic concepts of visual recognition	X			Study of lecture and the bibliography.	1,66	3,25
2	2	Unit 2: Basic concepts of Deep learning	X			Study of lecture and the bibliography.	1,66	3,25
3	3	Lab 1: Introduction to image processing and numerical data analysis with Python		X	Computer classroom	Development of the lab session and evaluation	1,66	3,25
4	4	Unit 3: Convolutional Neural Networks (CNNs) for image classification (I)	X			Study of lecture and the bibliography.	1,66	3,25
5	5	Lab 2: Image Classification with CNNs (I)		X	Computer classroom	Development of the lab session and evaluation	1,66	3,25
6	6	Unit 3: Convolutional Neural Networks (CNNs) for image classification (II)	X			Study of lecture and the bibliography.	1,66	3,25

7	7	Lab 2: Image Classification with CNNs (II)		X	Computer classroom	Development of the lab session and evaluation	1,66	3,25
8	8	Unit 3: Convolutional Neural Networks (CNNs) for image classification (III)	X			Study of lecture and the bibliography.	1,66	3,25
9	9	Lab 2: Image Classification with CNNs (III)		X	Computer classroom	Realización y estudio de la práctica de laboratorio.	1,66	3,25
10	10	Unit 4: Deep networks for other image-related tasks (I): object detection and image segmentation	X			Study of lecture and the bibliography.	1,66	3,25
11	11	Unit 4: Deep networks for other image-related tasks (II): matching, image captioning and synthesis	X			Study of lecture and the bibliography.	1,66	3,25
12	12	Lab 3: Other Applications of Deep Networks with images (I)		X	Computer classroom	Development of the lab session and evaluation	1,66	3,25
13	13	Lab 3: Other Applications of Deep Networks with images (II)		X	Computer classroom	Development of the lab session and evaluation	1,66	3,25
14	14	Lab 3: Other Applications of Deep Networks with images (III)		X	Computer classroom	Development of the lab session and evaluation	1,66	3,25
	15	Defense and Evaluation of Lab 2		X	Computer classroom	Development of the lab session and evaluation	1,66	3,25
Subtotal 1							25	49
Total 1 (Hours of class plus student homework. Weeks 1-14)							74	
15		Recuperaciones, tutorías, entrega de trabajos, etc					5	-
16		Preparación de evaluación y evaluación						
17							-	4
18								
Subtotal 2							5	4
Total 2 (Hours of class plus student homework. Weeks 15-18)							9	
TOTAL (Total 1 + Total 2. Máximo 83 horas)							83	