



COURSE: ASSISTIVE TECHNOLOGIES (12419)		
MASTER: ELECTRONIC SYSTEMS ENGINEERING AND APPLICATIONS	YEAR: 2019-20	TERM: 1st

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		Special room for session (computer classroom, audio-visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS/ LAB ¹		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	Introduction to the subject. Rules for accesibility and Universal Design	X			An introduction to Design for All	1,5	4
1	2	Chapter 1. Disabilities: a radiography. 1.1.- Disability in the world. 1.2.- State of the art and future challenges for disabilities.	X			Previous reading. Acquiring knowledge of the situation of disabilities in the world according WHO.	1,5	
2	3	1.3.-Regulations	X			Searching regulations from their own countries.	1,5	4
2	4	1.4.- Rehabilitation technology and Technical Aids.	X			Contribution to Aula Global's forum: latest news on technologies for disabilities.	1,5	

3	5	Chapter 2. Technical Aids in Vision. 2.1.- Vision disabilities: understanding problems. 2.2.- Traditional visual technical aids.	X			Previous Reading.	1,5	4
3	6	2.3.- Technological visual technical aids. 2.4.- Latest research: retina implants and virtual and augmented reality systems.	X			Previous Reading. Discussion in the classroom. Final assignment of the subjects for the individual work.	1,5	
4	7	Chapter 3. Mobility Technical Aids. 3.1.- Mobility disabilities: understanding problems. 3.2.- Traditional mobility technical aids.	X			Previous Reading.	1,5	4
4	8	3.3.- Technological mobility technical aids. 3.4.- Latest research: from exoskeletons to Brain Computer Interface.	X			Discussion in the classroom. Contribution to Aula Global's forum: the ideal technical aid.	1,5	
5	9	Chapter 4. Technical Aids in Communication. 4.1.- Intellectual disabilities: understanding problems. 4.2.- Traditional communication technical aids.	X			Previous Reading. Writing of the document of the individual work.	1,5	6
5	10	4.3.- Technological communication technical aids: mobile platforms. 4.4.- Web and e-accesibility.	X			Previous Reading. Discussion in the classroom. Writing of the document of the individual work.	1,5	
6	11	Chapter 5. Technical Aids in Hearing. 5.1.- Hearing disabilities: understanding problems. 5.2.- Traditional hearing technical aids.	X			Writing of the document of the individual work.	1,5	7

6	12	5.3.- Latest research in hearing technical aids. GDAF-UC3M Group contributions to assistive technologies.	X			Previous Reading. Discussion in the classroom. Writing of the document of the individual work. Setting up the presentations	1,5	
7	13	Works presentation and discussion.	X			Setting up the presentations. Reading the classmates' documents. Discussion in the classroom.	1,5	5
7	14	Works presentation and discussion.	X			Setting up the presentations. Reading the classmates' documents. Discussion in the classroom.	1,5	
Subtotal 1							21	34
Total 1 (Hours of class plus student homework hours between weeks 1-7)							55	

¹ A maximum of 1-2 lab sessions

1-8		Tutorials, handing in, etc				Solving any remaining question	10	
8		Assessment				Studying the documentation for the final assessment.	3	7
Subtotal 2							3	17
Total 2 (Hours of class plus student homework hours at week 8)							20	

TOTAL (Total 1 + Total 2)							75	
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