Universidad
Carlos III de Madrid
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COURSE: SENSOR NETWORKS AND EMBEDDED SYSTEMS COMMUNICATION		
MASTER: ELECTRONIC SYSTEMS ENGINEERING AND APPLICATIONS	YEAR: 2020-21	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	1. Introduction to Sensor Networks	X		Face-to-face	Getting of the required material for the subject (Tools, bibliography, etc.)	1,5	4
1	2	1. OSI Model	X		Online	Developed themes study	1,5	
2	3	2. Hardware in the nodes. Architectures	X		Face-to-face	Developed themes study	1,5	4
2	4	2. Hw in the nodes. Sensors	X		Online	Developed themes study	1,5	
3	5	2. Hw in the nodes. Interfaces	X		Face-to-face	Developed themes study	1,5	5
3	6	2. Hw in the nodes. Energy Harvesting	X		Online	Developed themes study	1,5	
4	7	3. Networks and Communications. Introduction to communications & network fundamentals	X		Face-to-face	Developed themes study	1,5	4
4	8	3. Networks and Communications. Communication protocols	X		Online	Developed themes study	1,5	

Week	#	Topic			Mode	Activity	Hours	Hours
5	9	3. Networks and Communications. Design & implementation	X		Face-to-face		1,5	7
5	10	3. Networks and Communications. Applications & case studies		X	Online	Practices preparation	1,5	
6	11	Practice		X	Face-to-face	Practices preparation	1,5	4,5
6	12	Practice		X	Online	Practices preparation	1,5	
7	13	Practice		X	Face-to-face	Practices preparation	1,5	4
7	14	Seminar: New Challenges in Sensor Networks		X	Seminars Room	Discussion in classs	3	
[1] A maximum of 1-2 lab sessions						**Subtotal 1**	22,5	32,5
						Total 1 *(Hours of class plus student homework hours between weeks 1-7)*	55	

Week		Topic					Hours	Hours
1-7 9-15		Tutorials, handing in, etc					10	
16							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