Universidad Carlos III de Madrid

SUBJECT: Machine-2-Machine Communications		
MASTER DEGREE: MASTER IN CONNECTED INDUSTRY 4.0	ECTS: 3	QUARTER: 1

TIMETABLE FOR THE SUBJECT

WEEK	SESSION	DESCRIPTION OF EACH SESSION	GROUP (X mark)		Indicate if a different lecture room is needed (computer, audiovisual, etc.)	HOMEWORK PER WEEK		
			1	2		DESCRIPTION	ATTENDING HOURS	HOMEWORK Max. 7H/WEEK
1	1	Introduction to the protocol architecture	X			Read the material and the references provided	1,5	3,5
1	2	Introduction to the laboratory (Node-RED intro)	X		laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5
2	3	Application layer protocols: HTTP-REST	X			Read the material and the references provided	1,5	3,5
2	4	HTTP Lab	X		laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5

3	5	Application layer protocols: HTTP-REST	X			Read the material and the references provided	1,5	3,5
3	6	Application layer protocols: CoAP	X			Read the material and the references provided	1,5	3,5
3	7	(Extra lab) CoAP lab	X		laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5
4	8	Application layer protocols: MQTT / MQTT-SN	X			Read the material and the references provided	1,5	3,5
4	9	Discovery layer: DNS-SD / mDNS, CoAP Resource Discovery	X			Read the material and the references provided	1,5	3,5
4	10	(Extra lab) MQTT lab	X		laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5
5	11	Machine-machine communications and Cloud	X			Read the material and the references provided	1,5	3,5

5	12	Lab (Node-RED)	X		laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5
6	13	Case study	X			Review the concepts seen throughout the course	1,5	3,5
6	14	Lab (Node-RED)	X		laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5
7	15	Case study	X			Review the concepts seen throughout the course	1,5	3,5
7	16	Exam	X			Study the concepts seen throughout the course		
TOTAL HOURS							22,5	52,5