

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

TIMETABLE FOR THE SUBJECT								
W EE K	SE SS IO N	DESCRIPTION OF EACH SESSION	GROUP (X mark)		Indicate if a different lecture room is needed (computer,	HOMEWORK PER WEEK		
			1	2	audiovisual, etc.)	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	Application layer protocols: HTTP-REST	Х			Read the material and the references provided	1,5	3,5
2	3	Application layer protocols: HTTP-REST (2)	x			Read the material and the references provided	1,5	3,5
2	4	HTTP Lab	х		laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5



3	5	Application-level protocols: CoAP, MQTT/MQTT-SN, others	x		Read the material and the references provided	1,5	3,5
3	6	IoT security	х		Read the material and the references provided	1,5	3,5
3	7	Machine to machine communications through the Cloud	x		Read the material and the references provided	1,5	3,5
4	8	IoT and BigData Lab	x	laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5
4	9	Firebase for IoT	X		Read the material and the references provided	1,5	3,5
4	10	Firebase and IoT Lab	X	laboratory	Read the statement of the practical assignment and review what has been explained in theory	1,5	3,5



TOTAL HOURS						19,5	45,5
7	14	Exam	x		concepts seen throughout the course		
					Study the		
6							
6	13	Use cases in Industrial IoT. Practical case Talgo + demo	х		Review the concepts seen throughout the course	1,5	3,5
5	12	Edge computing: Devices (Coral Edge TPU device)	Х		Read the material and the references provided	1,5	3,5
5	11	Edge computing: Machine Learning in IoT devices (tinyML)	Х		Read the material and the references provided	1,5	3,5