

SUBJECT: Computer Engineering and Systems for the IoT.		COURSE: 2020/2021	
MASTER: MASTER IN INTERNET OF THINGS: APPLIED TECHNOLOGIES		YEAR: 1	TERM: 1

WEEKLY SUBJECT						
WEEK	SESSION	DESCRIPTION	CLASSROOM	WEEKLY PROGRAMMING FOR STUDENT		
				DESCRIPTION	CLASS HOURS	HOMEWORKS HOURS
1 Jose	1 (14 Sept)	Presentation Part 1: Management and display of IoT data Introduction of theoretical contents (Theory)	Classroom	Study concepts taught	1,5	3,5
2 Jose	2 (21 Sept)	Time Series Databases (TSDB) <ul style="list-style-type: none"> Introduction to InfluxDB. 	Classroom	Study concepts taught	1,5	3,5
3 Jose	3 (28 Sept)	Time Series Database Management <ul style="list-style-type: none"> Data insertion on InfluxDB 	Classroom	Study concepts taught	1,5	3,5
4 Jose	4 (5 Oct)	Time Series Database Management <ul style="list-style-type: none"> Data display on InfluxDB: Chronograf 	Classroom	Study concepts taught	1,5	3,5
5	5 (12 Oct)			Study concepts taught		3,5

6 Pablo	6 (19 Oct)	Time Series Database Management Alert Management: Kapacitor	Classroom	Study concepts taught	1,5	3,5
7 Pablo	7 (26 Nov)	Presentation Part 2: HW, Sensors and actuators. <ul style="list-style-type: none"> Introduction to theoretical contents (Theory) 	Classroom	Study concepts taught	1,5	3,5
8	8 (2 Nov)					3,5
9 Pablo	9 (9 Nov)	Hardware, Sensors and Actuators (Theory) <ul style="list-style-type: none"> Microcontrollers (types, effectiveness, consumption, etc...) Sensors (measuring, temperature, pressure, humidity, etc...) Actuators (handling, operation, etc...) 	Classroom	Study concepts taught	1,5	3,5
10 Pablo	10 (16 Nov)	Hardware Practice (Lab) <ul style="list-style-type: none"> Board configuration (MCU node) 	Classroom	Study concepts taught	1,5	3,5
11 Pablo	11 (23 Nov)	Hardware Practice (Lab) <ul style="list-style-type: none"> Data collection Receiving and sending system. 	Classroom	Study concepts taught	1,5	3,5
12 Jose & Pablo	12 (30 Nov)	Global Tutorials: Final System Practice (Lab) <ul style="list-style-type: none"> Presentation and approval of the final practice. 	Classroom	Study concepts taught	1,5	3,5
13	13 (7 Dic)					3,5

14 Jose & Pablo	14 (14 Dic)	Face-to-face practical tutorials.	Classroom	Final Project Development	1,5	3,5
15 Jose & Pablo	15 (21 Dic)	Face-to-face practical tutorials.	Classroom	Final Project Development	1,5	
					19,5	52,5
TOTAL						72