

SUBJECT: INDUSTRIAL PRODUCTION AND SERVICE TECHNOLOGIES		
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,	HOMEWORK PER WEEK		
			1	2	audiovisual, etc.)	DESCRIPTION	ATTENDING HOURS	HOMEWORK Max. 7H/WEEK
1	1	Presentation of the course and introduction to industrial production and service technologies.	X		No	Review of the concepts of the session 1.	1,5	3,5
1	2	Control systems. Continuous systems. Sampled systems. Systems of discrete events. Process plants.	Х		No	Review of the concepts of session 2.	1,5	3,5
2	3	Introduction to automated production and manufacturing systems. Automated machines. Robotic systems and flexible manufacturing cells.	Х		No	Final work planning.	1,5	3,5
2	4	Material flows. Identification systems. Automated storage systems. Production planning and control.	Х		No	Review of the concepts of the sessions 3, 4.	1,5	3,5
3	5	Industrial computer systems. Computer Integrated Manufacturing. Supervision: SCADA systems. Traceability. Simulation of plants and industrial processes.	Х		No	Review of the concepts of session 5.	1,5	3,5
3	6	Practice I: Production Simulators.	Х		Computer Lab with Arena	Reading and preparation of the practice.	1,5	3,5



						75		
		TOTAL H	OURS			22,5	52,5	
7	15	Final Exam.	Х	No	Preparation for the final exam.	1,5	3,5	
7	14	Final Overview. Preparation for the final exam.	Х	No	Preparation for the final exam.			
7	13	Presentation of works.	Х	No	Preparation of the presentation of the work.	1,5	3,5	
6	12	Presentation of works.	Х	No	Preparation of the presentation of the work.	1,5	3,5	
6	11	Trends in manufacturing automation.	Х	No	Review of the concepts of session 11.	1,5	3,5	
5	10	Sustenaible development.	X	No	Review of the concepts of session 10.	1,5	3,5	
5	9	Practice II: Production Simulators.	Х	Computer Lab with Arena	Reading and preparation of practice exercises.	1,5	3,5	
4	8	Industrial Communications.	Х	No	Review of the concepts of session 8.	1,5	3,5	
4	7	Sensors and Actuators.	X	No	Review of the concepts of session 7.	1,5	3,5	