uc3m | Universidad Carlos III de Madrid

Vicerrectorado de Estudios Apoyo a la docencia y gestión del grado

COURSE: Design and analysis of automated processes		
DEGREE: Bachelor's Degree in Industrial Technologies Engineering	YEAR: 4	TERM: 1

			W	EEKLY F	LANNING			
	S E S I O N	DESCRIPTION	TEACHING (mark X)		CDECIAL DOOM	WEEKLY PROGRAMMING FOR STUDENT		
W E E K			L E C T U R E S	S E M I N A R	FOR SESSION (Computer class room, audiovisual class room)	DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWOR HOURS (Max. Estim 3,25h)
1	1	Introduction. Description and rules of the course. Review of concepts and general description of common terms.	Х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
2	2	Flexible manufacturing and Lean production.	х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
3	3	Industry 4.0	Х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
4	4	Information management I: CIM architectures, CIMOSA	х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
5	5	Information management II: communication protocols, field buses	х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
6	6	Information management III: Industrial Ethernet	Х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
7	7	Industruial communication lab I	Х		Laboratory	Reading and understanding of the lab session guidelines and the additional documentation.	1,66	3,25
8	8	Industruial communication lab II	Х		Laboratory	Reading and understanding of the lab session guidelines and the additional documentation.	1,66	3,25
9	9	Material management	Х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
10	10	SCADA systems	Х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
11	11	Quality management	Х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
12	12	Analysis and simulation	Х			Previous reading of the topics covered in class and study of the concepts. Solving proposed exercises.	1,66	3
13	13	Simulation lab I	Х		Computer	Reading and understanding of the lab session guidelines and the additional documentation.	1,66	3,25
١4	14	Simulation lab II	Х		Computer	Reading and understanding of the lab session guidelines and the additional documentation.	1,66	3,25
	15						1,66	3,25
						Subtotal 1	25	46
						Total 1 (Hours of class plus student homework)	7	1
.5		Tutorials, handing in, etc					1,8	-
.6 .7 .8		Assessment					4	4
					l .	Subtotal 2	6	4
						Total 2 (Hours of class plus student homework)		.0