Universidad Carlos III de Madrid
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COURSE: GESTIÓN EMPRESARIAL I		
DEGREE: INGENIERÍA EN TECNOLOGÍAS INDUSTRIALES	**YEAR: 4**	**TERM: 1**

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEV HOU (Max. wee
1	1	Introduction to Manufacturing Planning an Control systems (MPC)				NO	Active class participation. Study of assigned material	1,6	
1	2	Aggregate Production Planning				NO	Active class participation. Study of assigned material	1,6	4
2	3	Aggregate Planning techniques and process				NO	Active class participation. Study of assigned material	1,6	
2	4	Basics of Independent Demand Inventory Systems				NO	Active class participation. Study of assigned material	1,6	4
3	5	Dependent Demand Inventory Systems				NO	Active class participation. Study of assigned material	1,6	
3	6	Lot sizing heuristics methods I				NO	Active class participation. Study of assigned material	1,6	5

4	7	Lot sizing heuristics methods II				NO	Active class participation. Study of assigned material	1,6	
4	8	Lot sizing optimization methods				NO	Active class participation. Study of assigned material	1,6	6
5	9	Material Requirements Planning (MRP)				NO	Active class participation. Study of assigned material	1,6	
5	10	Inputs and outputs of the MRP system				NO	Active class participation. Study of assigned material	1,6	5
6	11	Lab 1. Lego practice				NO	Active class participation. Study of assigned material	1,6	
6	12	MRP explosion process				NO	Active class participation. Study of assigned material	1,6	5
7	13	Lot sizing. Safety stock and safety time				NO	Active class participation. Study of assigned material	1,6	
7	14	The Material Planner. Firm planned orders				NO	Active class participation. Study of assigned material	1,6	6
8	15	MRP in dynamic environments				NO	Active class participation. Study of assigned material	1,6	
8	16	Capacity Management				NO	Active class participation. Study of assigned material	1,6	6
9	17	Rough Cut Capacity Planning				NO	Active class participation. Study of assigned material	1,6	
9	18	Capacity Requirements Planning (CRP)				NO	Active class participation. Study of assigned material	1,6	6
10	19	Master Production Schedule (MPS)				NO	Active class participation. Study of assigned material	1,6	
10	20	MPS calculation. Planning horizon. ATP.				NO	Active class participation. Study of assigned material	1,6	7
11	21	MPS in Assemble To Order environments				NO	Active class participation. Study of assigned material	1,6	
11	22	Partial exam				NO	Active class participation. Study of assigned material	1,6	7
12	23	Shop Floor Control				NO	Active class participation. Study of assigned material	1,6	
12	24	Sequencing rules				NO	Active class participation. Study of assigned material	1,6	6
13	25	Lab 2. GSIM practice				NO	Active class participation. Study of assigned material	1,6	5

13	26	Production Scheduling				NO	Active class participation. Study of assigned material	1,6	
14	27	Theory of Constraints (TOC)				NO	Active class participation. Study of assigned material	1,6	
14	28	Drum-Buffer-Rope System				NO	Active class participation. Study of assigned material	1,6	5
	29	Push, Pull and CONWIP Systems				NO	Active class participation. Study of assigned material	1,6	2
							Subtotal 1	**48,33**	**79**
							Total 1 *(Hours of class plus student homework hours between weeks 1-14)*	127,33	

15		Tutorials, handing in, etc						7	
16		Assessment						3	14
17									
18									
							Subtotal 2	**3**	**14**
							Total 2 *(Hours of class plus student homework hours between weeks 15-18)*	24	

TOTAL *(Total 1 + Total 2. Maximum 180 hours)*	**151,33**