



COURSE: Design of productive and logistic systems		
MASTER: MASTER IN INDUSTRIAL ENGINEERING	ECTS: 6	TERM: 1
Teacher: Isabel García Gutiérrez		

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUP		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS Maximum 7 H
			1	2				
1	1	Presentation. Concept of de Productive and Logistic System				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	3
1	2	Introduction to Productive and Logistic Systems. Case discussion 1				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
2	3	Introduction to Productive and Logistic Systems. Supply chain planning				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
2	4	Introduction to Productive and Logistic Systems. Case discussion 2				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
3	5	Introduction to Productive and Logistic Systems. Production and Procurement				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6



3	6	Introduction to Productive and Logistic Systems. Distribution and Reverse Logistics. Case discussion 3				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
4	7	Introduction to Productive and Logistic Systems. Drivers of the supply chain.				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
4	8	Integration of the supply chain. Control and continuous improvement				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
5	9	Presentation and discussion of entrepreneurial real cases.				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
5	10	Presentation and discussion of entrepreneurial real cases.				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
6	11	Presentation and discussion of entrepreneurial real cases.				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
6	12	Planning of the operations in the supply chain. Introduction				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
7	13	Planning of the operations in the supply chain. Models				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
7	14	Planning of the operations in the supply chain. Exercises				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	



8	15	Introduction to inventory planning				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
8	16	Models for total cost optimization I				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
9	17	Models for total cost optimization II				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
9	18	Service level in inventory planning I				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
10	19	Service level in inventory planning I				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
10	20	Material flow exercises				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
11	21	Material flow exercises				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
11	22	Midterm exam (Approximate date)				Exam.	1,66	
12	23	Introduction to network design				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6



12	24	Models for location and capacity optimization I			Room for the exam	Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
13	25	Models for location and capacity optimization II				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
13	26	Network design. Exercises				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
14	27	Network design. Exercises				Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	6
14	28	Sustainability and the supply chain		14	27	Active class participation. Study of assigned material. Resolution of assigned exercises	1,66	
15	29	Sustainability, internationalization and globalization		14	28		1,66	3
TOTAL							48,14	84

Total 1							132,14	
15		Recuperations, assignment delivery, etc						
16		Exam preparation and evaluation						18
17								
Subtotal 2								



	20
Total 2	20
TOTAL (<i>Total 1 + Total 2. Mqsimum 180 hour</i>)	150,14