Universidad Carlos III de Madrid
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DENOMINACIÓN ASIGNATURA: METODOS Y MODELOS DE ORGANIZACIÓN-I		
GRADO: INGENIERIA EN TECNOLOGIAS INDUSTRIALES	**CURSO: 3**	**CUATRIMESTRE: 2**

La asignatura tiene 29 sesiones que se distribuyen a lo largo de 14 semanas. Los laboratorios pueden situarse en cualquiera de ellas. Semanalmente el alumnos tendrá dos sesiones, excepto en un caso que serán tres.

PLANIFICACIÓN SEMANAL DE LA ASIGNATURA

SEMANA	SESIÓN	DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN	GRUPO (marcar X)		Indicar espacio distinto de aula (aula informática, audiovisual, etc.)	Indicar SI/NO es una sesión con 2 profesores	TRABAJO SEMANAL DEL ALUMNO		
			GRANDE	PEQUEÑO			DESCRIPCIÓN	HORAS PRESENCIALES	HORAS TRABAJO (Max. 7h semana)
1	1	The company as sociotechnical system. Technology and organization					Active participation in the classroom Study of didactical material	1,66	
1	2	Work resources in the company					Active participation in the classroom Study of didactical material	1,66	4
2	3	The company as open system: Demand and environment					Active participation in the classroom Study of didactical material	1,66	
2	4	KPi's: Efficiency/Efectiveness and flexibility					Active participation in the classroom Study of didactical material	1,66	5

3	5	**Laboratoy 1 A model of a productive system**		X	13A14		Group working Active participation in the classroom Study of didactical material	1,66	
3	6	Productive systems modeling. Types . Linear programmingl					Active participation in the classroom Study of didactical material	1,66	5
4	7	**Laboratory 2 : Case Factory of ceramics**		X	13A14		Group working Active participation in the classroom Study of didactical material	1,66	
4	8	Optimize resource distribution					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
5	9	Ttransport and networking models					Solution of exercices Active participation in the classroom Study of didactical material	1,66	
5	10	**Laboratory 3. Case employing software**		X	13A14		Group working Active participation in the classroom Study of didactical material	1,66	5
6	11	Linear model. Planning in Factoy of paper					Solution of exercices Active participation in the classroom Study of didactical material	1,66	
6	12	Linear model. Planning in Quimical Factoy					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
7	13	Linear model. Planning in Environment case					Solution of exercices Active participation in the classroom Study of didactical material	1,66	
7	14	Linear model. Manufacturing and assembly					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
8	15	Linear model. Logistic optimization					Solution of exercices Active participation in the classroom Study of didactical material	1,66	
8	16	Discusion of solution of a linnear programming model					Active participation in the classroom Study of didactical material	1,66	5

9	17	Modeling in integer, mixed and non linear models					Active participation in the classroom Study of didactical material	1,66	
9	18	Partial exam 1. Planning flyings in an airways company					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
10	19	Modeling with initial cost of activities					Solution of exercices Active participation in the classroom Study of didactical material	1,66	
10	20	Optimization in supply chain					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
11	21	Dinamic programming					Active participation in the classroom Study of didactical material	1,66	
11	22	Clasical diligence model					Solution of exercices Active participation in the classroom Study of didactical material	1,66	4
12	23	Asignation resources model					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
12	24	Change of equipment model					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
13	25	Network optimization					Participación activa en clase Estudio del material asignado	1,66	5
13	26	Examples					Active participation in the classroom Study of didactical material	1,66	5
14	27	Minimum cost models					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
14	28	Maximum flow models Partial exam 2					Solution of exercices Active participation in the classroom Study of didactical material	1,66	5
11	29	**Laboratory 4. .Linaer modeling in recycling and energy savings**		X	13A14		Group working Active participation in the classroom Study of didactical material	1,66	2
							Subtotal 1	**48,33**	**85**

		Total 1 *(Horas presenciales y de trabajo del alumno entre las semanas 1-14)*						132,33	
15		Works of studens, etc					Work of laboratory nº 1	7	
16		Training for evaluation						3	14
17									
18									
							Subtotal 2	**3**	**14**
		Total 2 *(Horas presenciales y de trabajo del alumno entre las semanas 15-18)*						21	
TOTAL *(Total 1 + Total 2. Máximo 180 horas)*								**152,33**	