

COURSE: Systems architecture II		
DEGREE: Bachelor's Degree in Telematics Engineering	YEAR: 3	TERM: 2

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Processes and threads. Creation and management.	X			Study and review of the concepts of the session.	1,66	6,5
	2	Lab 1. Processes: creation and management		X	X	Hands-on session about the concepts explained during the previous lecture	1,66	
2	3	IPC: interruptions, signals and pipes	X			Study and review of the concepts of the session.	1,66	6,5
	4	Lab 1. Processes: creation and management		X	X	Hands-on session about the concepts explained during the previous lecture	1,66	
3	5	Basic Synchronization and process scheduling	X			Study and review of the concepts of the session.	1,66	6,5
	6	Lab2 (deliverable). Processes: communication		X	X	Hands-on session about the concepts explained during the previous lecture	1,66	
4	7	Problems session resolution	X			Resolution of problems	1,66	6,5
	8	Lab 2 (deliverable). Processes: communication		X	X	Hands-on session about the concepts explained during the previous lecture	1,66	
5	9	Threads and locks	X			Study and review of the concepts of the session.	1,66	6,5

5	10	Partial Exam		x	x	Exam	1,66	6,5
	11	Semaphores	x			Study and review of the concepts of the session.	1,66	
6	12	Lab 3. Threads and semaphores		x	x	Hands-on session about the concepts explained during the previous lecture	1,66	6,5
	13	Monitors	x			Study and review of the concepts of the session.	1,66	
7	14	Lab 4. Monitors		x	x	Hands-on session about the concepts explained during the previous lecture	1,66	6,5
	15	Problems session resolution	x			Resolution of problems	1,66	
8	16	Lab 5 (deliverable). Lab about concurrency mechanisms		x	x	Hands-on session about the concepts explained during the previous lecture	1,66	6,5
	17	Memory management	x			Study and review of the concepts of the session.	1,66	
9	18	Lab 5 (deliverable). Lab about concurrency mechanisms		x	x	Hands-on session about the concepts explained during the previous lecture	1,66	6,5
	19	Memory management	x			Study and review of the concepts of the session.	1,66	
10	20	Partial Exam		x	x	Partial Exam	1,66	6,5
	21	Distributed systems intro	x			Study and review of the concepts of the session.	1,66	
11	22	Lab 6 (deliverable). Remote Procedure Call		x	x	Hands-on session about the concepts explained during the previous lecture	1,66	6,5
	23	Middleware	x			Study and review of the concepts of the session.	1,66	
12	24	Lab 7 (deliverable). Middleware and REST		x	x	Hands-on session about the concepts explained during the previous lecture	1,66	6,5
	25	Distributed Synchronization	x			Study and review of the concepts of the session.	1,66	
13	26	Lab 7 (deliverable). Middleware and REST		x	x	Hands-on session about the concepts explained during the previous lecture	1,66	6,5
	27	Transactions	x			Study and review of the concepts of the session.	1,66	
14	28	Partial Exam		x	x	Partial Exam	1,66	6,5

13	29	Lab 7 (deliverable). Middleware and REST		x	x	Hands-on session about the concepts explained during the previous lecture	1,66	3,25
Subtotal 1							48	94
Total 1 (Hours of class plus student homework)							142	
15		Tutorials, handing in, etc					3,6	-
16		Assessment					4	10
17								
18								
Subtotal 2							8	10
Total 2 (Hours of class plus student homework)							18	
TOTAL (Maximun 160 horas)							160	