

DENOMINACIÓN ASIGNATURA: Modeling and simulation of dynamic systems		
POSTGRADO: MÁSTER UNIVERSITARIO EN ROBÓTICA Y AUTOMATIZACIÓN Profesor/a: FRANCISCO JOSÉ RODRÍGUEZ URBANO	ECTS: 3	CUATRIMESTRE: 1

CRONOGRAMA DE LA ASIGNATURA (versión detallada)								
SEMANA	SESIÓN	DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN (En su caso, incluir las recuperaciones, tutorías, entrega de trabajos, etc)	GRUPO (marcar X)		Indicar espacio Necesario distinto aula (aula informática, audiovisual, etc..)	TRABAJO DEL ALUMNO DURANTE LA SEMANA		
			1	2		DESCRIPCIÓN	HORAS PRESENCIALES	HORAS TRABAJO Semana Máximo 7 H
1		Introduction.	X		Computer room with OpenModelica software.	Learn how to install the software	2	7
2	1	Modelica Environments.	X		Computer room with OpenModelica software.	Environments DrModelica y OMedit	2	5
2	2	Laboratory I.	X		Computer room with OpenModelica software.	Practice exercises.	2	2
3		Modelica classes.	X		Computer room with OpenModelica software.	Practice exercises.	2	7
4		Modelica connectors.	X		Computer room with OpenModelica	Practice exercises.	2	7

					software.			
5	1	Modelica Equations.	X		Computer room with OpenModelica software.	Practice exercises.	2	4
5	2	Laboratory II.	X		Computer room with OpenModelica software.	Practice exercises.	2	2
6	1	Functions and algorithms.	X		Computer room with OpenModelica software.	Practice exercises.	2	5
6	2	Laboratory III	X		Computer room with OpenModelica software.	Practice exercises.	2	2
7	1	Hybrid systems and package management.	X		Computer room with OpenModelica software.	Practice exercises.	2	4
7	2	Laboratory IV	X		Computer room with OpenModelica software.	Practice exercises.	2	2
8		Expositions of personal Works.	X		Presentation of the model chosen for the personal work.	Work presentation.	2	4

14		Final Project submission.			Final delivery of student's work	Final document upload to Aula global.		6
1-17		Tuition.						1
TOTAL HORAS: 82							24	58