Universidad Carlos III de Madrid
www.uc3m.es

COURSE: Elements of Critical Software		
MASTER: Master in Aeronautical Engineering	**YEAR: 2014 / 2015**	**TERM:**

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	HOMEWORK HOURS (Max. 7h week)
1	1	• Elements of Critical Software Introduction. • Introduction to RTCA DO-178B.	X			No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
2	2	• Introduction to RTCA DO-178C. • SW Architectures Description.	X	X		No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2

3	3	• Low Level Programming. • Real-Time Operating Systems.	X			No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
4	4	• SW Requirements Management Practice.		X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
5	5	• SW Design.	X			No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
6	6	• SW Design Practice.		X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
7	7	• SW Design Practice.		X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
8	8	• SW Implementation. Theory & Practice.		X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2

9	9	• SW Implementation. Theory & Practice.		X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
10	10	• SW Implementation. Theory & Practice.		X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
11	11	• Model-Based Design for Airborne SW. • MBD for SW Practice. • SW for Airborne Human-Machine Interfaces. • SW for Airborne Human-Machine Interfaces Practice.	X	X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
12	12	• SW Verification.	X			No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
13	13	• Airborne SW Verification Practice I.		X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
14	14	• Airborne SW Verification Practice II.		X	Lab	No	- Reading the reference material: ○ Practice Description. ○ Subject Slides. - Study and personal work.	1,67	2
							Subtotal 1	**23,38**	**28**
							Total 1 *(Hours of class plus student homework hours between weeks 1-7)*	51,38	
8		Tutorials, handing in, etc							

9		Assessment						3	21
10									
11									
							Subtotal 2	**3**	**21**

Total 2 *(Hours of class plus student homework hours between weeks 8-11)*	24

TOTAL *(Total 1 + Total 2. Maximum 90 horas)*	

(*) *In EPS are given an additional 6 hours of completary teaching along two sessions.*