



<b>COURSE: Elements of Critical Software</b>		
<b>MASTER: Master in Aeronautical Engineering</b>	<b>YEAR: 1st</b>	<b>TERM: 2nd</b>

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	<ul style="list-style-type: none"> <li>• Elements of Critical Software Introduction.</li> <li>• Introduction to RTCA DO-178B.</li> </ul>	X			Yes	<ul style="list-style-type: none"> <li>• Reading the reference material:               <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
2	2	<ul style="list-style-type: none"> <li>• Introduction to RTCA DO-178B - Continuation.</li> <li>• Introduction to RTCA DO-178C.</li> </ul>	X	X		No	<ul style="list-style-type: none"> <li>• Reading the reference material:               <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
3	3	<ul style="list-style-type: none"> <li>• SW Architectures Description. IMA.</li> <li>• Real-Time Operating Systems.</li> <li>• IMA Application Exercise.</li> </ul>	X	X		No	<ul style="list-style-type: none"> <li>• Reading the reference material:               <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>Study and personal work.</li> </ul>	1,67	2

4	4	<ul style="list-style-type: none"> <li>• SW Requirements Management Practice</li> </ul>		X	INF Lab	Yes	<ul style="list-style-type: none"> <li>• Reading the reference material: <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
5	5	<ul style="list-style-type: none"> <li>• SW Design</li> </ul>	X	X		No	<ul style="list-style-type: none"> <li>• Reading the reference material: <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
6	6	<ul style="list-style-type: none"> <li>• SW Design Practice I.</li> </ul>		X	INF Lab	Yes	<ul style="list-style-type: none"> <li>• Reading the reference material: <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
7	7	<ul style="list-style-type: none"> <li>• SW Design Practice II.</li> <li>• SW Design Case Study Exercise</li> </ul>		X	INF Lab	Yes	<ul style="list-style-type: none"> <li>• Reading the reference material: <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
8	8	<ul style="list-style-type: none"> <li>• Partial Exam.</li> <li>• SW Implementation. Theory &amp; Practice I.</li> </ul>		X	INF Lab	Yes	<ul style="list-style-type: none"> <li>• Reading the reference material: <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
9	9	<ul style="list-style-type: none"> <li>• SW Implementation. Theory &amp; Practice II.</li> </ul>		X	INF Lab	Yes	<ul style="list-style-type: none"> <li>• Reading the reference material: <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
10	10	<ul style="list-style-type: none"> <li>• SW Implementation. Theory &amp; Practice III.</li> </ul>		X	INF Lab	Yes	<ul style="list-style-type: none"> <li>• Reading the reference material: <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2
11	11	<ul style="list-style-type: none"> <li>• SW Implementation. Theory &amp; Practice IV.</li> </ul>		X	INF Lab	Yes	<ul style="list-style-type: none"> <li>• Reading the reference material: <ul style="list-style-type: none"> <li>○ Practice Description.</li> <li>○ Subject Slides.</li> </ul> </li> <li>• Study and personal work.</li> </ul>	1,67	2

12	12	<ul style="list-style-type: none"> <li>SW Implementation Partial Exam (practice)</li> <li>SW Implementation. Theory &amp; Practice V.</li> </ul>		X	INF Lab	Yes	<ul style="list-style-type: none"> <li>Reading the reference material: <ul style="list-style-type: none"> <li>Practice Description.</li> <li>Subject Slides.</li> </ul> </li> <li>Study and personal work.</li> </ul>	1,67	2
13	13	<ul style="list-style-type: none"> <li>SW Verification.</li> </ul>	X	X		No	<ul style="list-style-type: none"> <li>Reading the reference material: <ul style="list-style-type: none"> <li>Practice Description.</li> <li>Subject Slides.</li> </ul> </li> <li>Study and personal work.</li> </ul>	1,67	2
14	14	<ul style="list-style-type: none"> <li>Airborne SW Verification Practice.</li> <li>SW verification Cases Study Exercise</li> </ul>		X	Avionics Lab	Yes	<ul style="list-style-type: none"> <li>Reading the reference material: <ul style="list-style-type: none"> <li>Practice Description.</li> <li>Subject Slides.</li> </ul> </li> <li>Study and personal work.</li> </ul>	1,67	2

**Subtotal 1**      **23,38**      **28**

<b>Total 1</b> ( <i>Hours of class plus student homework hours between weeks 1-7</i> )	<b>51,38</b>
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8		Tutorials, handing in, etc							
9		Assessment							
10		Ordinary –						3	21
11		Extraordinary							

**Subtotal 2**      **3**      **21**

<b>Total 2</b> ( <i>Hours of class plus student homework hours between weeks 8-11</i> )	<b>24</b>
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<b>TOTAL</b> ( <i>Total 1 + Total 2. Maximum 90 horas</i> )	<b>75,38</b>
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*(\*) In EPS are given an additional 6 hours of complementary teaching along two sessions.*