

COURSE: 2014-2015		
DEGREE: Aerospace Engineering	YEAR: 4	TERM: 1

-	WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION	Indicate YES/NO If the	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS	(Computer class room, audio-visual class room)	session needs 2 teachers	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	<ul> <li>Introduction to structural dynamics. 1DOF systems</li> </ul>				NO		1,6	7
1	2	✓ Exercises on 1 DOF systems				NO		1,6	
2	3	✓ N-DOF systems				NO		1,6	
2	4	✓ Exercises on N-DOF systems				NO		1,6	7
3	5	✓ Continuous systems				NO		1,6	7
3	6	✓ Exercises on continuous systems						1,6	
4	7	✓ Rotary wing aerodynamics. Vertical flight				NO		1,6	-
4	8	✓ V/STOL and Rotary Wing Aircraft						1,6	7
5	9	<ul> <li>Introduction to helicopter technology</li> </ul>				NO		1,6	
5	10	<ul> <li>✓ Exercises on rotary wing aerodynamics. (vertical).</li> <li>✓ Rotary wing aerodynamics. Forward flight</li> </ul>						1,6	7
6	11	✓ Exercises on rotary wing aerodynamics.				NO		1,6	7

		Forward flight							
6	12	✓ Helicopter performance						1,6	]
7	13	<ul> <li>Exercises on helicopter performance</li> </ul>				NO		1,6	7
7	14	<ul> <li>Helicopter design and operation</li> </ul>						1,6	
8	15	✓ Introduction to mechanism.	x			NO	It is required the use of compass, a 45° and 60/30° set-squares, a rule and a protractor (please bring this staff to class)	1,6	7
8	16	<ul> <li>Introduction to mechanism: Problems</li> </ul>		x			This session will be performed in a computer room (It will be used PTC-Creo)	1,6	
9	17	✓ Drives I: Gears	х			NO	Theory and examples.	1,6	7
9	18	✓ Drives I: Gears problems		Х			Problems	1,6	/
10	19	✓ Drives I: Gears Trains	х			NO	Theory and examples.	1,6	- 7
10	20	<ul> <li>Drives I: Gears Trains problems</li> </ul>		Х			Problems	1,6	<i>'</i>
11	21	<ul> <li>Drives II: Belt and friction drives</li> </ul>	х			NO	Theory and examples.	1,6	7
11	22	✓ Drives II: Belt and friction drives problems		Х			Problems	1,6	Ľ
12	23	✓ Drives III: Cams	Х			NO	Theory and examples.	1,6	7
12	24	✓ Drives III: Cams Problems		X			Problems	1,6	Ľ
13	25	✓ Bearings I.	Х			NO	Theory and examples.	1,6	7
13	26	✓ Bearings I:Problems		X			Problems	1,6	
14	27	✓ Bearings II.	Х			NO	Theory and examples.	1,6	7
14	28	✓ Bearings II: Problems		X			Problems	1,6	
15	29	✓ Doubts	Х					1,6	7
Subtotal 1							48,33	105	
Total 1 (Hours of class plus student homework hours between weeks 1-14)							L		
15	30	✓							<b>.</b>
16		Assessment						3	<u> </u>
Subtotal 2						3	3		
<b>Total 2</b> (Hours of class plus student homework hours between weeks 15-18)									
TOTAL (Total 1 + Total 2. <u>Maximum 180 hours</u> )						156			