



COURSE: Advanced Flight Mechanics		
DEGREE: Aerospace Engineering	YEAR: 4	TERM: 1

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	Introduction	X					1,6	
1	2	Static Stability	X					1,6	
2	3	General Equations of Motion	X					1,6	
2	4	Linear Equations of Motion	X					1,6	
3	5	Stability Derivatives. Longitudinal	X					1,6	
3	6	Stability Derivatives. Lateral	X					1,6	
4	7	Aircraft Data			Computer Room			1,6	
4	8	Unsteady Motion. Longitudinal	X					1,6	
5	9	Longitudinal Analysis			Computer Room			1,6	

5	10	Unsteady Motion. Longitudinal (II)	X					1,6	
6	11	Unsteady Motion. Lateral	X					1,6	
6	12	Lateral Analysis			Computer Room			1,6	
7	13	Control Theory	X					1,6	
7	14	Presentation Assignment 1						1,6	
8	15	Response to Longitudinal Controls	X					1,6	
8	16	Aircraft Actuators/Controls Data			Computer Room			1,6	
9	17	Longitudinal Control			Computer Room			1,6	
9	18	Response to Lateral Control. Lateral Steady States	X					1,6	
10	19	Lateral Controls			Computer Room			1,6	
10	20	Close Loop (I)	X					1,6	
11	21	Close Loop (II)	X					1,6	
11	22	Close Loop (III)	X					1,6	
12	23	Presentation Assignment 2						1,6	
12	24	Feedback Control.			Computer Room			1,6	
13	25	Close Loop (IV)	X					1,6	
13	26	Feedback Control.			Computer Room			1,6	
14	27	Feedback Control.			Computer Room			1,6	
14	28	Handling Qualities	X					1,6	
	29	Presentation Assignment 3						1,6	
Subtotal 1								48,33	
Total 1 (Hours of class plus student homework hours between weeks 1-14)									

15		Tutorials, handing in, etc							
16		Assessment						3	
17									
18									

Subtotal 2	3	
Total 2 (<i>Hours of class plus student homework hours between weeks 15-18</i>)		

TOTAL (<i>Total 1 + Total 2. <u>Maximum 180 hours</u></i>)		
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