



COURSE: FLIGHT MECHANICS		
DEGREE: AEROSPACE ENGINEERING	YEAR: 2017/2018	TERM: SPRING

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 to Mechanics of Flight	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	5
1	2	Exercises on Reference Frames		X	X		Solve the proposed exercises	1,6	
2	3	Equations of Motion Kinematics and Dynamics. External Forces	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	5
2	4	Exercises on Equations of Motion		X	X		Solve the proposed exercises	1,6	
3	5	Performance. Level Flight	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	5
3	6	Exercises on Level Flight		X	X		Reading corresponding book chapters. Study and personal work about the lecture	1,6	
4	7	Performance. Flight in a Vertical Plane	X				Solve the proposed exercises	1,6	7

4	8	Exercises on Flight in Vertical Plane		X	X		Solve the proposed exercises	1,6	
5	9	Performance. Turning Flight	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
5	10	Lab 1. Cruise performance		X	X			1,6	5
6	11	Performance. Takeoff and landing	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
6	12	Exercises on Turning Flight		X	X		Solve the proposed exercises	1,6	5
7	13	High Velocity Performance and Ground Effect	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
7	14	Exercises on Takeoff and Landing		X	X		Solve the proposed exercises	1,6	5
8	15	Static Stability. Longitudinal. Stick Fixed (1/2)	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
8	16	Review of Performance.		X			Solve the proposed exercises	1,6	5
9	17	Static Stability. Longitudinal. Stick Fixed(2/2)	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
9	18	Lab 3. Longitudinal Static Stability		X	X			1,6	7
10	19	Static Stability. Longitudinal. Stick Free(1/2)	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
10	20	Exersices on Longitudinal Static Stability. Stick Fixed		X			Solve the proposed exercises	1,6	5
11	21	Static Stability. Longitudinal. Stick Free(2/2)	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
11	22	Lab 4		X	X		Solve the proposed exercises	1,6	5
12	23	Exersices on Longitudinal Static Stability. Stick Free	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
12	24	Static Stability. Longitudinal. In maneuver		X				1,6	5
13	25	Exersices on Longitudinal Static Stability. Maneuver	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
13	26	Static Stability. Lateral (1/2)		X			Solve the proposed exercises	1,6	5
14	27	Exercises on Lateral Static Stability	X				Reading corresponding book chapters. Study and personal work about the lecture	1,6	
14	28	Static Stability. Lateral (2/2)		X				1,6	7
7	29	Lab2. Performance different flight phases		X	X			1,6	4
Subtotal 1								48,33	80
Total 1 (Hours of class plus student homework hours between weeks 1-14)								128,33	

15		Tutorials, handing in, etc						20	
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16										
17		Assessment							3	
18										
								Subtotal 2	3	
								Total 2 (Hours of class plus student homework hours between weeks 15-18)		23

TOTAL (Total 1 + Total 2. <u>Maximum 180 hours</u>)								151,33
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