



<b>COURSE: Aircraft Design</b>		
<b>DEGREE: Aerospace Engineering</b>	<b>YEAR: 4th</b>	<b>TERM: 2nd</b>

*La asignatura tiene 29 sesiones que se distribuyen a lo largo de 15 semanas.  
The course has 29 sessions that are distributed along 15 weeks.*

**2021 calendar prevision**

Month	Week	Sessions
Feb	W1	1-2
Feb	W2	3-4
Feb	W3	5-6
Feb	W4	7-8
Mar	W5	9-29-10-29
Mar	W6	11-12
Mar	W7	13-14
Mar	W8	15-16
Mar	-	-
Apr	W9	17
Apr	W10	18-19
Apr	W11	20-21
Apr	W12	22-23
May	W13	24-25
May	W14	26-27
May	W15	28

Mon	Tue	Wed	Thu
1		3	
8		10	
15		17	
22		24	
1	2(*)	3	4(*)
8		10	
15		17	
22		24	
29		31	
5		7	
12		14	
19		20	
26		28	
3	4(*)	5	
10		12	
17(*)			

(\*) = Recovery sessions

**Chapters/Labs**

Mon	Tue	Wed	Thu
1		1	
1-2		1-2	
2		2	
2-3		2-3	
3	L	3	L
3-4		4	
4		Exam	
5		5	
		5 / L	
6		6	
7		7	
7-8		8 / L	
	8-9	8-9	
9		9 / L	
9			

Special Sessions
2-Mar & 4-Mar: Lab 1
Wed 17-Mar: Partial Exam
Wed 7-Apr: Lab 2 (**)
Wed 28-Apr: Lab 3 (**)
Wed 12-May: Lab 4 (**)

(\*\*) = Session divided in Lab & Problems (one half each)

Incoming Chapters
1. Generalities and OE
2. Cruise Perfo
3. Climb & Ground Perfo
4. DP and Quick Sizing
5. T/W and Wing Loading
6. DW and Range
7. Wing Configuration
8. Fuselage and Tails Layout
9. Structural Loads

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)
W1	1	Generalities and Operating Environment	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W1	2	Generalities and Operating Environment		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W2	3	Generalities and Operating Environment Cruise Performance	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W2	4	Generalities and Operating Environment Cruise Performance		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W3	5	Cruise Performance	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W3	6	Cruise Performance		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W4	7	Cruise Performance Climb and Ground Performance	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W4	8	Cruise Performance Climb and Ground Performance		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W5	9	Climb and Ground Performance	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W5	28	Lab 1 [Climb and Ground Performance]		X	X	YES	Study and personal work about theory Do the practice and report	1.6	3.2
W5	10	Climb and Ground Performance		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W6	11	Climb and Ground Performance Design Process and Quick Sizing	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W6	12	Design Process and Quick Sizing		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2

**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)
W7	13	Design Process and Quick Sizing	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W7	14	Partial Exam			X	YES	Study and personal work about theory Solve the proposed exercises	1.6	10
W8	15	Thrust-to-Weight Ratio and Wing Loading	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W8	16	Thrust-to-Weight Ratio and Wing Loading		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W9	17	Lab 2 [DP and QS & TW and WL] Thrust-to-Weight Ratio and Wing Loading		X	X	YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W10	18	Design Weights and Range	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W10	19	Design Weights and Range		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W11	20	Wing Configuration	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W11	21	Wing Configuration		X		YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W11	22	Wing Configuration Fuselage and Tails Layout	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W12	23	Lab 3 [Fuselage and Tails Layout] Fuselage and Tails Layout		X	X	YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W13	24	Fuselage and Tails Layout Structural Loads	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W13	25	Fuselage and Tails Layout Structural Loads		X	X	YES	Study and personal work about theory Solve the proposed exercises	1.6	3.2

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)
W14	26	Structural Loads	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
W14	27	Lab 4 [Structural Loads] Structural Loads		X	X	YES	Study and personal work about theory Review of exercises	1.6	3.2
W15	28	Structural Loads	X			NO	Study and personal work about theory Solve the proposed exercises	1.6	3.2
<b>Subtotal 1</b>								<b>46.4</b>	<b>99.6</b>
<b>Total 1</b> (Hours of class plus student homework hours between weeks 1-15)								146	
W16		Tutorials, handing in, etc							5
W16		Final Assessment							
W17					X	YES		4	20
W18									
<b>Subtotal 2</b>								<b>4</b>	<b>25</b>
<b>Total 2</b> (Hours of class plus student homework hours between weeks 16-18)								29	
<b>TOTAL</b> (Total 1 + Total 2. <u>Maximum 180 hours</u> )								<b>175</b>	