

COURSE: Advanced Aircraft Design and Certification II						
	MASTER: Aeronautical Engineering	YEAR: 2nd	TERM: 1st			

La asignatura tiene 29 sesiones que se distribuyen a lo largo de 12 semanas. Los laboratorios pueden situarse en cualquiera de ellas. The course has 29 sessions distributed along 12 weeks. Labs can be located in any of these weeks.

2017 calendar prevision

Month	Wk	Sessions	Mon	Wed	Fri	Mon	Wed	Fri
Sep	1	1-2		6	8		(1) Aircraft Sizing Review	(1) Aircraft Sizing Review
Sep	2	3-4-5	11	13	15	(2) Longitudinal FQ and HTP	(2) Longitudinal FQ and HTP	Lab Practice
Sep	3	6-7-8	18	20	22	(3) Lateral FQ and VTP	(3) Lateral FQ and VTP	(4) Powerplant Installation
Sep	4	9-10-11	25	27	29	(4) Powerplant Installation	(5) Landing Gear Design	Lab Practice
Oct	5	12-13	2	4	> 6	(5) Landing Gear Design	(6) Flight Loads	
Oct	6	14	9	11	13	(6) Flight Loads		
Oct	7	15-16-17	16	18	20	(6) Flight Loads	Partial Exam	(7) Ground Loads
Oct	8	18-19-20	23	25	27	(7) Ground Loads	(8) Fatigue Analysis	Lab Practice
Oct/Nov	9	21-22	30	1	3	(8) Fatigue Analysis		(9) Aircraft Mass & CG
Nov	10	23-24-25	6	8	10	(9) Aircraft Mass & CG	(10) Interaction System-Struct	Lab Practice
Nov	11	26-27	13	15	X	(10) Interaction System-Struct	(11) Aircraft Cost Analysis	
Nov	12	28-29	20	21 ^(*)	24	(11) Aircraft Cost Analysis	(12) Flight & Ground Testing	

(*) Nov 21th: Tuesday instead of Wednesday

	WEEKLY PLANNING											
WEEK	SESSION	DESCRIPTION		GROUPS (mark X)		Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT					
~	UN N			SEMINARS	room, audio- visual class room)		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)			
1	1	Aircraft Sizing Review	x	x		NO	Reading corresponding notes chapters Study and personal work about the lecture Solve the proposed exercises	1.6	3.2			
1	2	Aircraft Sizing Review	Х	Х		NO	Reading, study and solving exercises	1.6	3.2			
2	3	Longitudinal Flying Qualities and HTP design	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
2	4	Longitudinal Flying Qualities and HTP design	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
2	5	Lab Practice		Х	Х	YES	Computational practice	1.6	3.2			
3	6	Lateral Flying Qualities and VTP design	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
3	7	Lateral Flying Qualities and VTP design	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
3	8	Powerplant Installation	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
4	9	Powerplant Installation	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
4	10	Landing Gear Design	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
4	11	Lab Practice		Х	Х	YES	Computational practice	1.6	3.2			
5	12	Landing Gear Design	Х	Х		NO	Reading, study and solving exercises	1.6	3.2			
5	13	Flight Loads	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
6	14	Flight Loads	х	х		NO	Reading, study and solving exercises	1.6	3.2			
7	15	Flight Loads	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
7	16	Partial Exam			х	YES	Exam	1.6	10			
7	17	Ground Loads	х	Х		NO	Reading, study and solving exercises	1.6	3.2			
8	18	Ground Loads	х	х		NO	Reading, study and solving exercises	1.6	3.2			
8	19	Fatigue Analysis	х	Х		NO	Reading, study and solving exercises	1.6	3.2			

	WEEKLY PLANNING											
WEEK	SESSION	DESCRIPTION		GROUPS (mark X)		SESSION (Computer class room, audio-	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT				
	ŬN			LECTURE S	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)		
8	20	Lab Practice			Х	Х	YES	Computational practice	1.6	3.2		
9	21	Fatigue Analysis		Х	Х		NO	Reading, study and solving exercises	1.6	3.2		
9	22	Aircraft Mass and CG estimation		Х	Х		NO	Reading, study and solving exercises	1.6	3.2		
10	23	Aircraft Mass and CG estimation		Х	Х		NO	Reading, study and solving exercises	1.6	3.2		
10	24	Interaction Systems-Flight-Structures		Х	Х		NO	Reading, study and solving exercises	1.6	3.2		
10	25	Lab Practice			Х	Х	YES	Computational practice	1.6	3.2		
11	26	Interaction Systems-Flight-Structures		х	Х		NO	Reading, study and solving exercises	1.6	3.2		
11	27	Aircraft Cost Analysis		Х	Х		NO	Reading, study and solving exercises	1.6	3.2		
12	28	Aircraft Cost Analysis		Х	Х		NO	Reading, study and solving exercises	1.6	3.2		
12	12 29 Flight and Ground Testing			Х	Х		NO	Reading, study and solving exercises	1.6	3.2		
Subtotal 1									46.4	99.6		
Total 1 (Hours of class plus student homework hours between weeks 1-12)									15	0		

13		Tutorials, handing in, etc								5
14-16		Final Assessment				Х	YES		3	15
Subtotal 2							2 3	20		
			Total 2 (Hours of class plus student homework hours between weeks 13-16)						23	

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

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