



COURSE: Air Navigation Systems		
DEGREE: Master in Aeronautical Engineering	YEAR: 3rd	TERM: 2nd

*La asignatura tiene 29 sesiones que se distribuyen a lo largo de 14 semanas. Los laboratorios pueden situarse en cualquiera de ellas.
Semanalmente el alumnos tendrá dos sesiones, excepto en un caso que serán tres*

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 the Course + Technology I (Legislation, Socio-economical Aspects, Applications, Industry, Types of vehicles Design particularities)	X			YES	Reading corresponding notes chapters	1,6	5
1	2	Technology II (Legislation, Socio-economical Aspects, Applications, Industry, Types of vehicles Design particularities)	X			NO	Study and personal work about the lecture	1,6	

2	3	Technology III (Legislation, Socio-economical Aspects, Applications, Industry, Types of vehicles, Design particularities)	X			NO	Reading corresponding notes chapters Study and personal work about the lecture	1,6	5
2	4	Quadcopter dynamics I		X		NO	Solve the proposed exercises/group work	1,6	
3	5	Quadcopter dynamics II	X			NO	Reading corresponding notes chapters Study and personal work about the lecture	1,6	7
3	6	IMU: accelerometers and gyroscopes		X	X	NO	Solve the proposed exercises/group work	1,6	
4	7	Estimation: Kalman filter	X			NO	Reading corresponding notes chapters Study and personal work about the lecture	1,6	5
4	8	Exercieses		X	X	NO	Solve the proposed exercises/group work	1,6	
5	9	Lab Navigation Systems I	X			NO	Reading corresponding notes chapters Study and personal work about the lecture	1,6	5
5	10	Quad-rotor ensambly lab. I		X	X	NO	Solve the proposed exercises/group work	1,6	
6	11	Quad-rotor ensambly lab. II	X			NO	Reading corresponding notes chapters Study and personal work about the lecture	1,6	7
6	12	Quad-rotor ensambly lab. III		X	X	NO	Prepare Midterm Exam	1,6	
7	13	Quad-rotor ensambly lab. IV	X			NO	Reading corresponding notes chapters Study and personal work about the lecture	1,6	7
7	14	Quad-rotor ensambly lab. V		X	X	NO	Solve the proposed exercises/group work	1,6	

Subtotal 1 **22.4** **41**

Total 1 (<i>Hours of class plus student homework hours between weeks 1-14</i>)	63.4
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15		Tutorials, handing in, etc							2.5
16		Assessment							15
17									
18									

Subtotal 2 **17.5**

Total 2 (<i>Hours of class plus student homework hours between weeks 15-18</i>)	27.5
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TOTAL (<i>Total 1 + Total 2. Maximum 180 hours</i>)	80.9
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