



<b>SUBJECT:</b> Analysis of Composite Structures		
<b>MASTER DEGREE:</b> Industrial Mechanics	<b>ECTS:</b> 4	<b>QUARTER:</b> 2

TIMETABLE FOR THE SUBJECT								
WEEK	SESSION	DESCRIPTION OF EACH SESSION	GROUP (X mark)		Indicate if a different lecture room is needed (computer, audiovisual, etc.)	HOMEWORK PER WEEK		
			1	2		DESCRIPTION	ATTENDING HOURS	HOMEWORK Max. 7H/WEEK
	1	Introduction to composite structures (I) Definitions, typologies, applications			NO	Previous reading of proposed themes Personal work about lesson	1.5	5
	2	Introduction to composite structures (II) Definitions, typologies, applications			NO	Personal work about chapter 1 Proposed exercises. Discussion	1.5	5
	3	Analysis and calculus (I) Anisotropic Elasticity, Stiffness matrix of a lamina			NO	Previous reading of proposed themes Personal work about lesson	1.5	5
	4	Analysis and calculus (II) Resolution of proposed exercises			NO	Personal work about chapter 2 Proposed exercises. Discussion	1.5	5
	5	Analysis and calculus (III) Failure modes in composites, failure criteria			NO	Previous reading of proposed themes Personal work about lesson	1.5	5
	6	Analysis and calculus (IV) Resolution of proposed exercises			NO	Personal work about chapter 2 Proposed exercises. Discussion	1.5	5



7	Tutorials			SI	Personal work about chapter 2 Proposed exercises. Discussion	2	5
8	Analysis and calculus (V) Laminate theory, First order theory, laminate failure criteria, design recommendations			NO	Previous reading of proposed themes Personal work about lesson	1.5	5
9	Analysis and calculus (VI) Resolution of proposed exercises			NO	Personal work about chapter 2 Proposed exercises. Discussion	1.5	5
10	Design of structural elements (I) Laminate and thin-walled Beams			NO	Previous reading of proposed themes Personal work about lesson	1.5	5
11	Design of structural elements (II) Resolution of proposed exercises			NO	Personal work about chapter 3 Proposed exercises. Discussion	1.5	5
12	Tutorials			NO	Personal work about chapter 2 Proposed exercises. Discussion	2	5
13	Design of structural elements (III) Sandwich beams			NO	Previous reading of proposed themes Personal work about lesson	1.5	5
14	Design of structural elements (III) Resolution of proposed exercises			NO	Personal work about chapter 3 Proposed exercises. Discussion	1.5	5
15	Design of structural elements (IV) Shell theory			NO	Previous reading of proposed themes Personal work about lesson	1.5	2



	16	Design of structural elements (VI) Resolution of proposed exercises			NO	Personal work about chapter 3 Proposed exercises. Discussion	1.5	
	17	Tutorials			SI	Personal work about chapter 2 Proposed exercises. Discussion	3	
<b>TOTAL HOURS</b>							<b>28</b>	<b>72</b>
								<b>100</b>