

COURSE: MATERIALS SELECTION FOR TRANSPORT AND AEROSPACE INDUSTRIES

DEGREE: BACHELOR IN ENGINEERING OF INDUSTRIAL TECHNOLOGIES YEAR: 4th TERM: 1st

T-	WEEKLY PLANNING												
WEEK	SESSION	DESCRIPTION	GROUPS		SPECIAL ROOM FOR SESSION (Computer	Indicate YES/NO If the session needs 2	WEEKLY PROGRAMMING FOR STUDENT						
			LECTURE	SEMINAR	class room, audio-visual class room)	teachers: Maximum 4 sessions	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS Maximum 7 h				
1	1	Presentation and objectives of the course.					Exercise 0: properties of materials	1,66					
1	2	Introduction to materials selection.					Exercise 1: cost of materials	1,66	6				
2	3	Procedures to select materials (I)						1,66					
2	4	Procedures to select materials (II)					Exercise 2: selection procedures out of materials industry	1,66	4				
3	5	Numerical methods in materials selection						1,66					
3	6	Selection according to mechanical properties (I)					Exercise 3: selection procedure for materials using MCDM	1,66	7				
4	7	Selection according to mechanical properties (II) and thermal properties						1,66					
4	8	Procedures to select forming processes.					Exercise 4: selection of materials	1,66	6				
5	9	Rapid prototyping and additive manufacturing					Exercise 5: selection of processes s	1,66					
5	10	Materials selection: informatics in lab			2.2C04		Materials' selection using computer programme	1,66	6				

6	11	Materials for aeronautics (I)			Exercise 6: rapid prototyping	1,66	
6	12	Materials selection: informatics in lab		2.2C04	Materials' selection using computer programmes	1,66	5
7	13	Materials for aeronautics (II)			Preparation of class presentation s	1,66	
7	14	Materials selection: informatics in lab		2.2C04	Materials' selection using computer programme	1,66	7
8	15	Materials for aerospatial industry (I)			Exercise 7: graphical selection of materials	1,66	
8	16	Materials selection: informatics in lab		2.2C04	Materials' selection using computer programmes	1,66	7
9	17	Materials for aerospatial industry (II)			Exercise 8: selection through computer programme	1,66	
9	18	Materials for automotive industry (I)			Exercise 9: Materials for aeronautics	1,66	7
10	19	Materials for automotive industry (II)				1,66	
10	20	Materials for automotive industry (III)			Exercise 10: Materials for automotive industry	1,66	7
11	21	Metallic foams				1,66	
11	22	Carbonaceous materials			Exercise 11: Carbonaceous materials	1,66	7
12	23	Nanomaterials				1,66	
12	24	Intermetallics. Phase change materials.	Ecomaterials			1,66	7
13	25	Public presentation				1,66	ļ
13	26						
14	<u> </u>						· · · · · · · · · · · · · · · · · · ·
14							· · · · · · · · · · · · · · · · · · ·
	Subtotal 1	41,66					
			Total 1 (Presential and и	orking hours of the studer	nt in weeks 1-14)	117,66	
15	<u> </u>	Others					
16							
17	<u> </u>	Preparing exam and exam	1			3	i
18	<u> </u>						15
					Subtotal 2	3	15
		21					
TOTA	138.66						