



COURSE DENOMINATION: MATERIALS TECHNOLOGY		
BACHELOR: Industrial Technology Engineering	COURSE: 3º	SEMESTER: 2º

COURSE WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION OF THE CONTENT OF THE SESSION	GROUP (X)		Indicate in case different place from classroom (computer classroom, audiovisual, etc.)	Indicate YES/NO session with two professors	SEMANTAL STUDENT WORK		
			GRANDE	PEQUEÑO			DESCRIPTION	IN-CLSSROM HOURS	WORK HOURS (Max. 7h week)
1	1	Introduction	X				Study and preparation of the following session with the recommended bibliography	1,66	3
1	2	Ferrous Alloys		X			Study and preparation of the following session with the recommended bibliography	1,66	
2	3	Non Ferrous Alloys	X				Study and preparation of the following session with the recommended bibliography	1,66	3
2	4	Fundamentals of Casting		X			Study and preparation of the following session with the recommended bibliography	1,66	
3	5	Metal Casting Processes	X				Study and preparation of the following session with the recommended bibliography	1,66	3
3	6	Fundamentals of Plastic deformation		X			Study and preparation of the following session with the recommended bibliography	1,66	

4	7	Plastic deformation Processes	X				Study and preparation of the following session with the recommended bibliography	1,66	3
4	8	Powder Technology		X			Study and preparation of the following session with the recommended bibliography	1,66	
5	9	Ceramics and Glasses I	X				Study and preparation of the following session with the recommended bibliography	1,66	3
5	10	Ceramics and Glasses II		X			Study and preparation of the following session with the recommended bibliography Review. Study for the Continuous assessment	1,66	
6	11	Processing of Polymers. Test 1 (2 to 10)	X				Study and preparation of the following session with the recommended bibliography	1,66	3
6	12	Processing of MCMP					Study and preparation of the following session with the recommended bibliography	1,66	
7	13	In-Service behavior: Fracture	X				Study and preparation of the following session with the recommended bibliography Resolution of exercises	1,66	5
7	14	In-Service behavior: Fracture. Exercises					Study and preparation of the following session with the recommended bibliography	1,66	
8	15	In-Service behavior: Fatigue.	X				Study and preparation of the following session with the recommended bibliography Resolution of exercises	1,66	5
8	16	In-Service behavior: Fatigue. Exercises		X			Study and preparation of the following session with the recommended bibliography	1,66	5
9	17	In-Service behavior: Creep	X				Study and preparation of the following session with the recommended bibliography Resolution of exercises	1,66	
9	18	In-Service behavior: Creep. Exercises		X			Study and preparation of the following session with the recommended bibliography Review. Study for the Continuous assessment	1,66	5
10	19	Friction and wear Test 2 (11 to 15)	X				Study and preparation of the following session with the recommended bibliography	1,66	
10	20	Corrosion		X			Study and preparation of the following session with the recommended bibliography	1,66	3
11	21	Joining techniques I. Welding	X				Study and preparation of the following session with the recommended bibliography	1,66	
12	22	Joining techniques II. Adhesive bonding		X			Study and preparation of the following session with the recommended bibliography	1,66	3

12	23	Surface Treatments I	X				Study and preparation of the following session with the recommended bibliography	1,66	3
13	24	Surface Treatments II		X			Study and preparation of the following session with the recommended bibliography Review. Study for the Continuous assessment	1,66	3
14	25	Inspection and testing (NDT) Test 3 (16 to 21)	X				Study	1,66	3
14	26	Review. Resolution of Doubts		X			Study	1,66	3
15	27	Laboratory 1: Casting			Laboratory	YES	Lecture of the manual of laboratory 1	1,66	3
15	28	Laboratory 2: Powder Metallurgy			Laboratory	YES	Lecture of the manual of laboratory 2	1,66	3
16	29	Laboratory 3: Adhesive Bonding			Laboratory	YES	Lecture of the manual of laboratory 3	1,66	3
16	30	Laboratory 4. NDT			Laboratory	YES	Lecture of the manual of laboratory 4	1,66	3
Subtotal 1								51,48	104
Total 1 (In-classroom hours and student work along weeks 1-14)									
15		Retakes, tutorials, works delivery, etc							
16		Preparation of assessment and evaluation						3	20
17									
18									
Subtotal 2								3	20
Total 2 (In-classroom and student work along weeks 15-18)								23	
TOTAL (Total 1 + Total 2. Maximum 180 hours)								178.48	