



**SUBJECT NAME : Engineering of Surfaces**

**GRADE: Engineering in Industrial Technologies**

**YEAR: 4º**

**4 month period: E 1º:**

**WEEKLY TIMETABLE OF THE COURSE**

WEEK	SESSION	DESCRIPTION OF THE CONTENT OF THE SESSION	GROUP (TICK X)		Indicate different classroom space required (computer classroom, audiovisual, etc...)	Session with two professors	Weekly work of the student		
			Big	Small			DESCRIPTION	ATTENDANCE HOURS	HOURS OF INDIVIDUAL WORK (maximum 7 h)
1	1 3-9	Introduction of the subject. Basic concepts of corrosion		x		<b>NO</b>	Study of the contents	1.66	4
1	2 5-9	High-temperature corrosion		x			Study of the contents. Do the first individual exercise of the continuous assessment.	1.66	
2	3 10-9	Friction and wear I		x		<b>NO</b>	Study of the contents	1.66	4
2	4 12-9	Friction and wear IIr		x		<b>NO</b>	Study of the contents	1.66	
3	5 17-9	Lubrication		x		<b>No</b>	Study of the contents	1.66	5
3	6 19-9	Termodinámica de la corrosión acuosa				<b>NO</b>	Estudio de contenidos. Do the second individual exercise of the continuous assessment.	1.66	
4	7 24-9	General corrosion and its electrochemical characterization		x		<b>NO</b>	Study of the contents taught during the lesson.	1.66	5

4	8 26-10	Galvanic corrosion. Localized corrosion				<b>NO</b>	Study of the contents taught during the lesson. Do the third individual exercise of the continuous assessment.	1.66	
5	9 1-10	Corrosion determined by metallurgic factors. Corrosion fostered by physical stresses				<b>NO</b>	Study of the contents	1.66	4
5	10 3-10	Corrosion testing				<b>NO</b>	Study of the contents	1.66	
6	11 8-10	Protection against corrosion I				<b>NO</b>	Study of the contents	1.66	6
6	12 11-10	Protection against corrosion I				<b>NO</b>	Study of the contents taught during the lesson. Do the fifth individual exercise of the continuous assessment.	1.66	
7	13 15-10	Corrosion laboratory-I	x	1.0A04		<b>NO</b>	Reading the guide notes for the experimental work and solving the raised questions in small groups.	1.66	4
7	14 17-10	Corrosion laboratory-II	x	1.0A04		<b>NO</b>	Reading the guide notes for the experimental work and solving the raised questions in small groups.	1.66	
8	15 22-10	Surface pre-treatments	x			<b>NO</b>	Study of the contents	1.66	5
8	16 24-10	Laboratory of surface treatments	x	1.SA04		<b>No</b>	Reading the guide notes for the experimental work and solving the raised questions in small groups.	1,66	
9	17 29-10	Metallic coatings - I				<b>NO</b>	Study of the contents	1.66	4
9	18 31-10	Metallic coatings - II				<b>NO</b>	Study of the contents taught during the lesson. Do the fifth individual exercise of the continuous assessment.	1.66	
10	19 5-11	Metallic coatings - III	x			<b>NO</b>	Study of the contents	1.66	4
10	20 7-11	CVD, PVD and thermal spray coatings	x			<b>NO</b>	Study of the contents	1,66	
11	21 12-11	Anodic coatings				<b>NO</b>	Study of the contents .	1.66	4
11	22	Chemical conversión coating and organic coatings				<b>NO</b>	Study of the contents .	1.66	

	14-11									
12	23 19-11	Laboratory of coatings		x	1.SA04	NO	Reading the guide notes for the experimental work and solving the raised questions in small groups.	1.66	5	
12	24 21-11	Models of adhesion		x		NO	Study of the contents . Doing the essay	1.66		
13	25 26-11	Preparation of adherents				NO	Study of the contents . Doing the essay	1.66		
13	26 28-11	Mechanical performance of adhesive joints		x		NO	Study of the contents . Doing the essay	1.66		
14	27 3-12	Degradation of adhesive joints		x		NO	Study of the contents . Doing the essay	1.66		
14	28 5-12	Reactive adhesives: stiff and flexible.		x		NO	Study of the contents . Doing the essay	1.66		
15	29 10-12	Pre-polymerized adhesives		x		NO	Study of the contents . Doing the essay	1,66	5	
							<b>Subtotal 1</b>	<b>48</b>	<b>68</b>	
			<b>Total 1 (attendance and working hours of the students from 1 to 14 week)</b>						116	
15		Tutorial session, essay giving out							10	
16		Studying and taking the exam							4	
17										
18										26
							<b>Subtotal 2</b>	<b>4</b>	<b>26</b>	
			<b>Total 2 attendance and working hours of the students from 15 to 18 week)</b>						40	
<b>TOTAL (Total 1 + Total 2.maximum 180 hours)</b>								<b>156</b>		