

COURSE: MATERIALS FOR ENERGY PRODUCTION AND STORAGE

DEGREE: BACHELOR IN ENGINEERING OF INDUSTRIAL TECHNOLOGIES

YEAR: 4th

TERM: 2st

	WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUPS		SPECIAL ROOM FOR SESSION (Computer class room,	Indicate YES/NO If the session needs 2	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURE	SEMINAR	audio-visual class room	teachers: Maximum 4 sessions	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS Maximum 7 h
1	1	Introduction					Study of recommended references and material used by the teacher and solving exercises.	1,66	4
2	2	Fundamentals of electrochemistry					Study of recommended references and material used by the teacher and solving exercises.	1,66	4
3	3	Fuel Cells I.					Study of recommended references and material used by the teacher and solving exercises.	1,66	4
4	4	Fuel Cells II.					Study of recommended references and material used by the teacher and solving exercises.	1,66	4

		1			Study of recommended references and		
5	5	Capacitors, Supercapacitors and Piezoelectrics.			material used by the teacher and solving	1,66	
		capacitors, supercapacitors and riczociccines.			exercises.	_,00	4
					Study of recommended references and		-
6	6	Superconductors			material used by the teacher and solving	1,66	4
		Magnetic Materials			exercises.		
					Study of recommended references and		
7	7				material used by the teacher and solving	1,66	
		Battery Basics			exercises.		4
					Study of recommended references and		
8	8				material used by the teacher and solving	1,66	4
		Batteries I			exercises.		
					Study of recommended references and		
9	9				material used by the teacher and solving	1,66	
		Batteries II			exercises.		4
					Study of recommended references and		
10	10				material used by the teacher and solving	1,66	4
					exercises.		
					Study of recommended references and		
11	11	Phase Change Materials			material used by the teacher and solving	1,66	
	12				exercises.		4
12		Characterization Techniques of Fuel cells.	L	aboratory	Report on results associated with practical	1,66	4
12	12	Characterization rechiniques of ruercens.			cases.	1,00	4
13	13	Characterization Techniques of Patteries	L	aboratory	Report on results associated with practical	1,66	
13	13	Characterization Techniques of Batteries.			cases.	1,00	4
14	14	Team work			Preparation of team work and exposure.	1,66	6
			•	•	Subtotal 1	23,33	58
		<b>Total 1</b> (Presential and working hours of the student in weeks 1-14)		81.3	33		
15		Others					
16							
17		Preparing exam and exam				3	
18		Treparing exam and exam				,	4
18							

_	Subtotal 2	3	4
1	<b>Total 2</b> (Presential and working hours of the student in weeks 15-18)		,
TOTAL (Total 1 + Total 2. <u>Maximum 180 hours</u> )		88,	33