uc3m | Universidad Carlos III de Madrid
Vicerrectorado de Estudios
Apoyo a la docencia y gestión del grado

COURSE: Chemistry II		
DEGREE: Engineering Physics	YEAR: 1	TERM: 2

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Introduction of the Course. Topic 1.- Electrochemistry I: Basic Concepts	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	2	Topic 1.- Practical cases on Electrochemistry I		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
2	3	Topic 2.- Electrochemistry II: Applications	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	4	Topic 2.- Practical cases on Electrochemistry II		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
3	5	Topic 3.- Corrosion: Mechanisms and Control	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	6	Topic 3.- Practical cases on Corrosion		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	

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4	7	Topic 4.- Organic Chemistry: Introduction	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	8	Topic 4.- Practical cases on Organic Chemistry		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
5	9	Topic 5.- Stereochemistry. Laboratory	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	10	Topic 5.- Practical cases on Stereochemistry		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
6	11	Topic 6.- Alkanes: Properties and Reactivity	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	12	Topic 6.- Practical cases on Alkanes		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
7	13	Topic 7.- Alkenes, Alkynes, and Aromatic Hydrocarbons: Properties and Reactivity	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	14	First Quiz. Topic 7.- Practical cases on Alkenes, Alkynes, and Aromatic Hydrocarbons. Laboratory		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
8	15	Topic 8.- Alcohols, Phenols, and Ethers: Properties and Reactivity. Carbonyl Compounds (Aldehydes and Ketones): Properties and Reactivity	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	16	Topic 8.- Practical cases on Alcohols, Phenols, Ethers, and Carbonyl Compounds (Aldehydes and Ketones)		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	

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9	17	Topic 9.- Carboxylic Acids: Properties and Reactivity	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	18	Topic 9.- Practical cases on Carboxylic Acids. Laboratory		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
10	19	Topic 10.- Amines: Properties and Reactivity	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	20	Topic 10.- Practical cases on Amines		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
11	21	Topic 11.- Structural Determination	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	22	Topic 11.- Practical cases on Structural Determination. Laboratory		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
12	23	Topic 12.- Biochemistry I: Biophysics and Catalysis	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	24	Topic 12.- Practical cases on Biochemistry I		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
13	25	Topic 13.- Biochemistry II: Structure and Properties of Macromolecules	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	26	Topic 13.- Practical cases on Biochemistry II. Laboratory		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	

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14	27	Topic 14.- Biochemistry III: DNA and RNA	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	28	Second Quiz. Topic 14.- Practical cases on Biochemistry III		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
	29	Additional Session					1,66	3,25
						Subtotal 1	**48**	**94**
						Total 1 *(Hours of class plus student homework)*	**142**	
15		Tutorials, handing in, etc					3,6	-
16		Assessment				Preparation for the assessments	4	10
17								
18								
						Subtotal 2	**8**	**10**
						Total 2 *(Hours of class plus student homework)*	**18**	
TOTAL (*Maximun 160 horas*)							**160**	