

COURSE: Chemistry I		
DEGREE: Physics Engineering	YEAR: 1	TERM: 1

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Topic 0: Presentation and preliminary concepts - Introduction to the chemistry, stoichiometry, ...	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	2	Exercises Topic 0 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
2	3	Topic 01.- The Atomic structure: atoms, isotopes and ions	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	4	Exercises Topic 01 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
3	5	Topics 02.- Periodic relationships	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	6	Exercises Topic 02 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	

4	7	Topic 03.- Chemical bonding I: basic concepts	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	8	Exercises Topic 3 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
5	9	Topic 04.- Chemical bonding II: Molecular geometry, hybridization	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	10	Exercises Topic 04 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
6	11	Topic 05. Main properties of the principal groups	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	12	Exercises Topic 05 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
7	13	Topic 06.- State of matter I	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	14	Exercises Topic 06 - Practical cases and LABORATORY		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises. Study of the lab guide and elaboration of the practice	1,66	
8	15	Topic 07.- State of matter II	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	16	Exercises Topic 07 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
9	17	Topic 08.- Thermochemistry	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	18	FIRST QUIZ - Exercises Topic 08 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
	19	Topic 09.- Chemical equilibrium	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	

10	20	Exercises Topic 09 - Practical cases and LABORATORY		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises. Study of the lab guide and elaboration of the practice	1,66	6,5
11	21	Topic 10.- Acid-base equilibria I	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	22	Exercises Topic 10 - Practical cases and LABORATORY		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises. Study of the lab guide and elaboration of the practice	1,66	
12	23	Topic 11.- Acid-base equilibria II	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	24	Exercises Topic 11 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
13	25	Topic 12.- Solubility equilibria	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	26	Exercises Topic 12 - Practical cases		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	
14	27	Topic 13.- Chemical Kinetics	x			Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises.	1,66	6,5
	28	SECOND QUIZ - Exercises Topic 13 - Practical cases and LABORATORY		x		Work on the taught topic, review of slides and recommended bibliograohy, and realization of exercises. Study of the lab guide and elaboration of the practice	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	17 18	Assessment					4	10
17								
18								
Subtotal 2							8	10
Total 2 (Hours of class plus student homework)							18	

TOTAL (*Maximun 160 horas*)

160