

COURSE: Biochemistry		
DEGREE: Biomedical engineering	YEAR: 2018-2019	TERM: 1st semester

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	Introduction	X				1,66	6,5
	2	General discussion about problems/exercises to introduction class		X			1,66	
2	3	Protein analysis I	X				1,66	6,5
	4	Solve the proposed problems and exercises		X			1,66	
3	5	Protein analysis II. Post translational modifications	X				1,66	6,5
	6	Solve the proposed problems and exercises		X			1,66	
4	7	Enzymes	X				1,66	6,5
	8	Solve the proposed problems and exercises		X			1,66	
5	9	Solve the proposed problems and exercises	X				1,66	6,5
	10	Metabolic Routes I: Energy and Glycolysis		X			1,66	
6	11	Solve the proposed problems and exercises	X				1,66	6,5
	12	Metabolic Routes II: Krebs cycle, Oxidative Phosphorylation	X				1,66	
7	13	Solve the proposed problems and exercises		X			1,66	6,5
	14	Metabolic Routes III. Biosynthesis and degradation	X				1,66	

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			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)
8	15	Solve the proposed problems and exercises		X			1,66	6,5
	16	Signal Transduction I. Membrane receptors. Second messengers. Main signalling pathways	X				1,66	
9	17	Solve the proposed problems and exercises		X			1,66	6,5
	18	Signal Transduction II. Membrane receptors. Second messengers. Main signalling pathways	X				1,66	
10	19	Solve the proposed problems and exercises		X			1,66	6,5
	20	Cancer	X				1,66	
11	21	Solve the proposed problems and exercises		X			1,66	6,5
	22	Continuous evaluation test	X				1,66	
12	23	Clinical Biochemistry		X			1,66	6,5
	24	Solve the proposed problems and exercises	X				1,66	
13	25	Endocrinology Diabetes		X			1,66	6,5
	26	Solve the proposed problems and exercises	X				1,66	
14	27	General Tutorial I	X				1,66	6,5
	28	General Tutorial II	X				1,66	
	29	Additional session (Make-up class)	X				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	Assessment					4	10
17								
18								
Subtotal 2							8	10
Total 2 (Hours of class plus student homework)							18	

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			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)

TOTAL A (Maximun 160 horas)	160
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LABORATORIES CLASSES PROGRAMMING						
WEEK	SESSION	DESCRIPTION	LABORATORY	WEEKLY PROGRAMMING FOR STUDENT		
				DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. Estim. 6,5h)
	1	Tissue culture Cell and Tissue Engineering	X	How to culture cells in the tissue engineering lab	1,66	6,5
	2	Protein identification and quantification		Protein isolation and quantification from cell culture and engineered tissues	1,66	
Subtotal 3					3,5	6,5

Total 3 (Hours of class plus student homework)	10
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TOTAL B (Total 3)	10
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TOTAL (Total A + Total B. Maximun 170 horas)	170
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WEEKLY PLANNING

W E E K	S E S S I O N	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L	S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max.Estim. 6,5h)
			E	E				
			C	M				
			U	N				
			R	A				
			E	R				
			S	S				