



COURSE: CELL & MOLECULAR BIOLOGY		
DEGREE: Biomedical Engineering	YEAR: 2014	TERM: 2nd Semester

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1(28/1)	1	INTRODUCTION TO CELLS	X				Essential cell biology Chapter 1	1,6	
1 (29/20-1)	2	INTRODUCTION TO CELLS		x			Practical case, problems, paper discussion	1,6	
2 (4/2)	3	CHEMICAL COMPONENTS OF CELLS	X				Essential cell biology Chapter 2	1,6	
2 (5 y 6/2)	4	CHEMICAL COMPONENTS OF CELLS		x			Practical case, problems, paper discussion Essential Cell Biology Chapter 4 Panel 4-3: cell breakage and initial fractionation cell extracts. Making and using antibodies.	1,6	
3 (11/2)	5	MEMBRANE STRUCTURE	X				Essential cell biology Chapter 11	1,6	
3 (12 y 13/2)	6	MEMBRANE STRUCTURE		x			Practical case, problems, paper discussion continuous evaluation (lectures 1&2) 12 y 14 de Feb	1,6	

4 (18/2)	7	MEMBRANE TRANSPORT	X			Essential cell biology Chapter 12	1,6
4 (19 y 20)	8	MEMBRANE TRANSPORT		x		Practical case, problems, paper discussion	1,6
5 (25/2)	9	INTRACELLULAR COMPARTMENTS AND TRANSPORT	X			Essential cell biology Chapter 15	1,6
5 (26 y 27/2)	10	INTRACELLULAR COMPARTMENTS AND TRANSPORT		X		Practical case, problems, paper discussion continuous evaluation (lectures 3&4) 26 y 28 de Feb	1,6
6 (4/3)	11	CELL COMMUNICATION	X			Essential cell biology Chapter 16	1,6
6 (5y 6/3)	12	CELL COMMUNICATION		X		Practical case, problems, paper discussion	1,6
7 (11/3)	13	CYTOSKELETON	X			Essential cell biology Chapter 17	1,6
7 (12 Y 13/3)	14	CYTOSKELETON		X		Practical case, problems, paper discussion continuous evaluation (lectures 5&6) 12 Y 14 de Mar	1,6
8	15	Protein Structure and Function, Proteomics	X				1,6
8	16	Protein Structure and Function, Proteomics		X		Practical case, problems, paper discussion	1,6
9	17	From DNA to Genes to Genomes. Genomics	X				1,6
9	18	From DNA to Genes to Genomes. Genomics		X		Practical case, problems, paper discussion	1,6
10	19	Control of Gene expression. Transcriptomics.	X				1,6
10	20	Control of Gene expression. Transcriptomics		X		Practical case, problems, paper discussion	1,6
11	21	DNA Replication, Repair, and Recombination	X				1,6
11	22	DNA Replication, Repair, and Recombination		X		Practical case, problems, paper discussion	1,6
12	23	Genetic Variation and Disease	X				1,6
12	24	Genetic Variation and Disease		X		Practical case, problems, paper discussion	1,6
13	25						1,6
13							
14							
14							

Subtotal 1 41,66

Total 1 (Hours of class plus student homework hours between weeks 1-14)	
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15		Tutorials, handing in, etc						
16		Assessment						
17								3
18								

Subtotal 2	3
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Total 2 (Hours of class plus student homework hours between weeks 15-18)	
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TOTAL A (Total 1 + Total 2)	150
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LABORATORIES CLASSES PROGRAMMING (*)						
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WEEK	SESSION	DESCRIPTION	LABORATORY	WEEKLY PROGRAMMING FOR STUDENT		
				DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
	1				1,6	
	2				1,6	
	3				1,6	
	4				1,6	
	5				1,6	
	6				1,6	
	7				1,6	
	8				1,6	
	9				1,6	
	10				1,6	

Subtotal 3	16
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Total 3 (Hours of class plus student homework hours of ten sessions laboratories)	
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TOTAL B <i>(Total 3)</i>	
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TOTAL <i>(Total A + Total B. Maximum 180 hours)</i>	
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() In EPS are given an additional 16 hours of laboratory practices along ten sessions.*