

COURSE: Informatics and Biotechnology to Support Tissue Engineering						
DEGREE: Biomedical Engineering	YEAR: 2014/2015	TERM: 2nd semester				

	WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room,	Indicate YES/NO If the session	WEEKLY PROGRAMMING FOR STUDENT			
			LECTURES	SEMINARS	audio-visual class room)	needs 2 teachers	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)	
1	1	Gene and protein sequencing	х				Reading of proposed topics. Bibliographic research	1,6	4	
1	2	Presentation and discussion of some practical examples, problems and articles		х				1,6	6	
2	3	Gene expression analysis	х				Reading of proposed topics. Bibliographic research	1,6	6	
2	4	Presentation and discussion of some practical examples, problems and articles		х				1,6	6	
3	5	Protein expression analysis	х				Reading of proposed topics. Bibliographic research	1,6	4	
3	6	Presentation and discussion of some practical examples, problems and articles		х				1,6	6	
4	7	Protein interactions	х				Reading of proposed topics.	1,6	6	

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					Bibliographic research		
4	8	Presentation and discussion of some practical examples, problems and articles		х		1,6	
5	9	Genomic analysis	x		Reading of proposed topics. Bibliographic research	1,6	6
5	10	Presentation and discussion of some practical examples, problems and articles		x		1,6	0
6	11	Proteomic analysis	х		Reading of proposed topics. Bibliographic research	1,6	6
6	12	Presentation and discussion of some practical examples, problems and articles		x		1,6	0
7	13	Systems biology	х		Reading of proposed topics. Bibliographic research	1,6	6
7	14	Presentation and discussion of some practical examples, problems and articles		x		1,6	Ŭ
8	15	Synthetic biology	x		Reading of proposed topics. Bibliographic research	1,6	6
8	16	Presentation and discussion of some practical examples, problems and articles		х		1,6	- 6
9	17	Quantitative imaging in Cell Biology and analysis techniques	х		Reading of proposed topics. Bibliographic research	1,6	6
9	18	Presentation and discussion of some practical examples, problems and articles		х		1,6	0
10	19	Quantitative analysis in tissue engineering	x		Reading of proposed topics. Bibliographic research	1,6	6
10	20	Presentation and discussion of some practical examples, problems and articles		x		1,6	0
11	21	Digital fabrication of tissues	х		Reading of proposed topics. Bibliographic research	1,6	6
11	22	Presentation and discussion of some practical examples, problems and articles		x		1,6	0
12	23	Automatic systems for quality control			Reading of proposed topics. Bibliographic research	1,6	6
12	24	Presentation and discussion of some practical examples, problems and articles				1,6	U
13	25	Analysis data techniques and clinical interfaces				1,6	3
					Subtotal 1	40	75

15		Tutorials, handing in, etc					1,	5
16								
17		Assessment					3	6
18								
L						Subtotal 2	3	7,5
Total 2 (Hours of class plus student homework hours between weeks 15-18)				10,5				

TOTAL (Total 3	+ Total 2)	125,50

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