

COURSE: BIOCHEMISTRY		
DEGREE: Biomedical Engineering	YEAR: 2019-2020	TERM: 1

	WEEKLY PLANNING										
WEEK	SESSION	DESCRIPTION		GROUPS (mark X)		R Indicate YES/NO If the session					
			LECTURES	SEMINARS	class room, audio-visual class room)	needs 2 teachers	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)		
1	1 (4/9)	Introduction	Х					1,6	6		
1	2 (6/9)			Х			Solve the proposed problems and exercises	1,6	0		
2	3 (11/9)	Protein analysis I	Х					1,6	6		
2	4 (14/9)			Х			Solve the proposed problems and exercises	1,6			
3	5 (18/9)	Protein analysis II. Post translational modifications	х					1,6	6		

3	6 (20/9)			х	Solve the proposed problems and exercises Selected paper discussion	1,6	
4	7 (25/9)	Enzymes	х			1,6	6
4	8 (27/9)			Х	Solve the proposed problems and exercises	1,6	
5	9 (2/10)	Metabolic Routes I: Energy and Glycolysis	Х			1,6	6
5	10 (4/10)			х	Solve the proposed problems and exercises Selected paper discussion	1,6	0
6	11 (9/10)	Metabolic Routes II: Krebs cycle, Oxidative Phosphorylation First Continuous Evaluation Test OCTOBER 19 TH	х			1,6	6
6	<mark>12 (11/10)</mark>	HOLIDAYS		×	Solve the proposed problems and exercises Selected paper discussion	1,6	
7	13 (16/10)	Metabolic Routes III. Biosynthesis and degradation	х			1,6	6
7	14 (18/10)			х	Solve the proposed problems and exercises	1,6	
8	15 (23/10)	Signal Transduction I. Membrane receptors. Second messengers. Main signalling pathways	х			1,6	6
8	16 (25/10)			Х	Solve the proposed problems and exercises	1,6	
9	17 (30/10)	Signal Transduction II. Membrane receptors. Second messengers. Main signalling pathways	х			1,6	6
9	<mark>18 (1/11)</mark>	HOLIDAYS		×	Solve the proposed problems and exercises Selected paper discussion	1,6	
10	19 (6/11)	Cancer. Second Continuous evaluation Test (November 25 th)	х			1,6	6
10	20 (8/11)			х	Solve the proposed problems and exercises Selected paper discussion	1,6	
11	21 (13/11)	Clinical Biochemistry I	Х			1,6	
11	22 (15/11)			х	Solve the proposed problems and exercises Selected paper discussion	1,6	6

12	23 (20/11)	Clinical Biochemistry II (Diabetes and obesity) X					1,6	6
12	24 (22/11)			Х			Solve the proposed problems and exercises	1,6	
13	25 (27/11)							1,6	
13	<mark>29/11</mark>							1,6	6
14	<mark>04/11</mark>							1,6	
14	26 (6/12)		Х				Holidays		
									-
Subtotal 1							Subtotal 1	40	78
Total 1 (Hours of class plus student homework hours between weeks 1-14)							veen weeks 1-14)		1

15	28 (14/12)		>	х					4,6	
15	29 (16/12)				х			Tutorials, review		
	Subtotal 2						4,6			
	Total 2 (Hours of class plus student homework hours between weeks 15-18)									
			TOTAL A (Total 1	TOTAL A (Total 1 + Total 2)					44,6	

	LABORATORIES CLASSES PROGRAMMING (*)								
				WEEKLY PROGRAMMING FOR STUDENT					
WEE	K SESSION	DESCRIPTION	LABORATORY	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)			

1	Cell culture First group starts on Monday September 12th	Tissue culture Cell and Tissue Engineering	Teams of 10 students	3,0	1		
2	Cell Harvesting. Lysate prepatration	Molecular Biology	Teams of 10 students	3,0	0,5		
3	Protein Quantification. Immunofluorescence	Molecular Biology	Teams of 10 students	3,0	0,5		
4	Protein electrophoresis. Western Blotting	Molecular Biology	Teams of 10 students	3,0	0,5		
5	Enzyme Kinetics	Molecular Biology	Teams of 10 students	3,0	0,5		
		1	Subtotal 3	15	3		
	Total 3 (Hours of class plus student homework hours of ten sessions laboratories)						
	TOTAL B (Total 3)						

TOTAL (Total A + Total B. <u>Maximum 180 hours</u>)

(*) In EPS are given an additional 16 hours of laboratory practices along ten sessions.