UNIVERSITATEA DIN BUCUREŞTI
FACULTATEA DE BIOLOGIE
Domeniul: BIOLOGIE
Programul de studii universitare: Master: **Applied Biochemistry and Molecular Biology**
Titlul absolventului: Master's degree
Durata studiilor: 2 ani, 4 semestre
Forma de învăţământ: cu frecvenţă
Limba de predare: engleză

TEACHING PROGRAM 2023 - 2025

Nr crt	Discipline	Discipline Type	SEMESTER I								SEMESTER II							
			No weeks	Courses (C)/ Practical work (LP)/ Seminar (S)			hours/ total			Credits	No weeks	Courses (C)/ Practical work (LP)/ Seminar (S)			hours/ total			Credits
				C	LP/ S	Evaluation	C	LP	Total			C	LP	Evaluation	C	LP	Total	
1	Cell Signaling	advanced	14	2	2	V	28	28	56	6								
2	Advanced Molecular Genetics	advanced	14	2	2	E	28	28	56	6								
3	Developmental and stem cell biology	advanced knowledge	14	2	2	E	28	28	56	6								
4	Genomics	advanced knowledge	14	2	2	E	28	28	56	6								
5	Transcriptomics	advanced knowledge									14	2	2	E	28	28	56	6
6	Proteomics	advanced knowledge									14	2	2	E	28	28	56	6
7	Biochemical and molecular toxicology	synthesis									14	2	2	E	28	28	56	6
8	Molecular basis of diseases	synthesis									14	2	2	E	28	28	56	6
		Total	8	8			112	112	224	24		8	8		112	112	224	24
9	Individual research activity I	practice activity	14	0	10	V	0	140	140	6								
10	Individual research activity II	practice activity									14	0	10	V	0	140	140	6
		Total	8	18			112	252	364	30		8	18		112	252	364	30
		Total Semester I, II															728	60
DF1	*Theoretical and practical aspects of animal cell cultures (BBM, Year I)*	*synthesis*	*14*	*2*	*2*	*E*	*28*	*28*	*56*	*6*								
DF2	*Medical mycology (LM Year I)*	*synthesis*	*14*	*1*	*1*	*E*	*14*	*14*	*56*	*4*								
DF3	*Volunteer activity*		*14*						*25*	*1*								
DF4	*Clinical hematology (BM, Year I)*	*synthesis*									*14*	*2*	*2*	*E*	*28*	*28*	*56*	*4*
DF5	*Volunteer activity*										*14*						*25*	*1*

Nr crt	Discipline	Discipline Type	SEMESTER III								SEMESTER IV							
			No weeks	Courses (C)/ Practical work (LP)/ Seminar (S)			hours/ total			Credits	No weeks	Courses (C)/ Practical work (LP)/ Seminar (S)			hours/ total			Credits
				C	LP/ S	Evaluation	C	LP	Total			C	LP/ S	Evaluation	C	LP/ S	Total	
11	Tissue engineering for regenerative medicine	synthesis	14	2	2	E	28	28	56	6								
12	Basis of cellular and tissue pathology	synthesis	14	2	2	E	28	28	56	6								
13	Gene therapy	synthesis	14	2	2	E	28	28	56	6								
14	Methods and techniques for data analysis	advanced knowledge	14	2	2	V	28	28	56	6								
15	Quality management in clinical and research laboratories	synthesis									10	2	2	V	20	20	40	6
16	Developing a research project	synthesis									10	0	2	V	0	20	20	3
17	Documentation and writing a scientific paper	synthesis									10	0	2	V	0	20	20	3
18	Ethics and academic integrity	synthesis									10	2	2	V	20	20	40	6
		Total	8	8			112	112	224	24		4	8		40	80	120	18
19	Individual research activity III	practice activity	14	0	10	V	0	140	140	6								
20	Individual research activity IV	practice activity									10	0	10	V	0	100	100	6
21	Documentation and elaboration of master thesis	synthesis									10			V			100	6
		Total	8	18			112	252	364	30		4	18		40	180	320	30
		Total Semester III, IV															684	60
22	Presentation of the dissertation thesis																	10
DF6	*Medical parasitology (LM Year II)*	*synthesis*	*14*	*1*	*1*	*E*	*14*	*14*	*28*	*3*								
DF7	*Histopathology and cytological diagnosis (LM Year II)*	*complementary*	*14*	*2*	*2*	*E*	*28*	*28*	*56*	*6*								
DF8	*Volunteer activity*		*14*						*25*	*1*								
DF9	*Medical entomology (BM, Year I)*	*specialization*									*10*	*1*	*1*	*E*	*10*	*10*	*20*	*5*
DF10	*Applications of bioinformatics in medical genomics (BioInfo, Year II)*	*specialization*									*10*	*2*	*2*	*E*	*20*	*20*	*40*	*5*
DF11	*Volunteer activity*										*10*						*25*	*1*