

Curriculum
Years of study : 1 (2021/2022)

I.Compulsory subjects

No.	Subjects	Formative category	Code	1st semester (14 weeks)						2nd semester (14 weeks)					
				Hours/week						Hours/week					
				C	S	L	P	Cr	FV	C	S	L	P	Cr.	FV
1	Chemistry	DF	0310010101	1		2		5	E						
2	Analytic Chemistry and Instrumental Analysis 1	DD	0310010102	1		2		5	E						
3	Ecology and Environmental protection	DF	0310010103	2		2		5	E						
4	Computer Science	DF	0310010104	1		2		4	V						
5	General biology	DF	0310010105	1		2		4	E						
6	General biotechnologies	DD	0310010106	2				3	V						
7	Analytic Chemistry and Instrumental Analysis 2	DD	0310010107							1		2		4	E
8	Comparative anatomy	DF	0310010108							2		3		5	E
9	Biophysics	DF	0310010109							2		2		5	E
10	Mathematics and statistics	DF	0310010110							2		2		4	E
11	Cellular biology	DF	0310010111							2		2		5	E
12	Academic ethics and integrity	DU/DD	0310010112							1	1			2	V
13	Physical Education 1	DC	0310010113		1			2	V						
14	Physical Education 2	DC	0310010114								1			1	V
15	Foreign languages 1	DC	0310010115	1	1			2	V						
16	Foreign languages 2	DC	0310010116							1	1			1	V
17	Practice I	DS	0310010117							3 weeks (90 hours)				3	C
Total: hours/credits/week				9	2	10	0		4E,4V	11	3	11	0		5E,3V
Total /semester/year				21				30		25				30	1C
II.Optional subjects															
Total: hours/credits/week									4E,4V						5E,3V
Total /semester/year				21				30		25				30	1C
III.Facultative subjects															
18	Tractor driving	DU/DD	0310010318							1		1		2	V
19	Psychology of education*	DC	0310010319	2	2			5	E						
20	Pedagogy I*	DC	0310010320							2	2			5	E

* Compulsory for DPPD

Curriculum

Year of study : 2 (2022/2023)

I.Compulsory subjects

No.	Subjects	Formative category	Code	1st semester (14 weeks)						2nd semester (14 weeks)					
				Hours/week						Hours/week					
				C	S	L	P	Cr	FV	C	S	L	P	Cr.	FV
1	Genetics 1	DF	0310020101	2		2		6	E						
2	Biochemistry 1	DF	0310020102	2		2		6	E						
3	Animal physiology 1	DF	0310020103	2		2		6	E						
4	Molecular biology	DD	0310020104	2		2		5	V						
5	Bioethics	DD	0310020105	2				3	V						
6	Biochemistry 2	DF	0310020106							2		2		5	E
7	Animal physiology 2	DF	0310020107							2		2		5	E
8	Genetics 2	DD	0310020108							2		2		5	E
9	General microbiology	DF	0310020109							2		2		5	E
10	Biotechnological equipments	DD	0310020110							1		2		3	V
11	Animal cell and tissue cultures	DD	0310020111							2		2		4	V
12	Practice 2	DS	0310020112							3 săptămâni (90 ore)				3	C
Total: hours/credits/week				10	0	8	0		3E,1V	11	0	12	0	30	4E,2V
Total /semester/year				18				26		23					1C

II.Optional subjects

13	Botanics	DF	0310020213												
14	Zoology	DU/DF	0310020214	1		2		4	V						
15	Medicinal herbs	DU/DF	0310020215												
Total: hours/credits/week				3					3E,2V						4E,2V
Total /semester/year				21				30		23				30	1C

III.III.Facultative subjects

16	Biotechnological design and construction	DS	0310020316	1		2		3	V						
17	Human anatomy	DF	0310020317	1		2		3	V						
18	Accounting and financial analysis	DC	0310020318	1		1		2	V						
19	Ergonomics and occupational safety	DU/DD	0310020319	1		1		2	V						
20	Communication	DU/DD	0310020320							1		1		2	V
21	Career orientation	DU/DD	0310020321							1		1		2	V
22	Physical Education 1	DC	0310020322			1		3	V						
23	Physical Education 2	DC	0310020323									1		3	V
24	Pedagogy II*	DC	0310020324	2	2			5	E						
25	Didactics of the specialization*	DC	0310020325							2	2			5	E

Curriculum

Year of study: 3 (2023/2024)

I.Compulsory subjects

Nr.	Subjects	Formative category	Code	Semestrul 1 (14 săptăm)						2nd semester (14 weeks)					
				Hours/week						Hours/week					
				C	S	L	P	Cr	FV	C	S	L	P	Cr	FV
1	Medical microbiology	DS	0309030101	2		2		5	E						
2	Animal genetic engineering	DD	0309030102	2		2		5	E						
3	Pharmacology and pharmaceutical biotechnology	DS	0309030103	3		3		6	E						
4	Animal reproduction biology	DD	0309030104	2		3		5	E						
5	Animal hygiene and welfare	DS	0309030105	3		2		5	E						
6	Enzymology	DD	0309030106	2		2		4	V						
7	Reproduction biotechnology 1	DS	0309030107							2		2		5	E
8	Animal pathology	DS	0309030108							2		3		5	E
9	Processing biotechnologies and quality control of plant production	DS	0309030109							2		2		5	E
10	Raw materials of animal origin	DS	0309030110							2		3		5	V
11	Immunology	DS	0309030111							2		2		4	E
12	Applied biotechnologies in apiculture and sericulture	DS	0309030112							2		2		3	E
13	Practice 3	DS	0309030113							3 săptămâni (90 zile)				3	C
Total: hours/credits/week				14	0	14	0		5E,1V	12	0	14	0		5E,1V
Total /semester/year				28				30		26				30	1C
II.Optional subjects															
Total: hours/credits/week									5E,1V						5E,1V
Total/semester/year				28				30		26				30	1C
III.Discipline facultative															
14	Car driving 1	DU/DD	0309030314	1		2		3	V						
15	Car driving 2	DU/DD	0309030315							1		2		3	V
16	Computer assisted training*	DC	0309030316	1	1			2	C						
17	Teaching Practice in Compulsory Pre-university Education 1*	DC	0309030317		3			3	C						
18	Teaching Practice in Compulsory Pre-university Education 2*	DC	0309030318								3			2	C
19	Classroom Management *	DC	0309030319							1	1			3	E
DPPD module final exam Level 1														5	E

* Compulsory for DPPD

Curriculum
Year of study : 4 (2024/2025)

I. Compulsory subjects

Nr.	Subjects	Formative category	Code	1st semester (14 weeks)						2nd semester (14 weeks)					
				Hours/week						Hours/week					
				C	S	L	P	Cr	FV	C	S	L	P	Cr.	FV
1	Reproduction biotechnology 2	DS	0309040101	2		2		5	E						
2	Processing biotechnologies and quality control of animal production	DS	0309040102	2		2		5	E						
3	Toxicology	DD	0309040103	2		2		4	V						
4	HACCP Analysis - Food safety and security	DS	0309040104	3		2		5	E						
5	Biotechnologies of animal food and nutrition	DS	0309040105	2		2		4	E						
6	Biotechnological methods for animal breeding	DS	0309040106	2		2		4	E						
7	Quantitative Methods	DD	0309040107	2		2		3	V						
8	Biotechnologies for the production of vaccines, sera and diagnostic biopreparations	DS	0309040108							2		2		4	E
9	Waste management biotechnologies	DD	0309040109							2		2		4	E
10	Management	DD	0309040110							2		2		4	E
11	Testing of product authentication	DU/DD	0309040111							2		2		4	E
12	Aquaculture biotechnologies	DS	0309040112							1		1		3	V
13	Laboratory diagnostics	DU/DD	0309040113							1		2		4	V
14	Practice for the elaboration of the graduation project	DS	0309040114							120 ore				3	C
Total: hours/credits/week				15	0	14	0			10	0	11	0		4E,2V
Total/semester/year				29				30	5E, 2V	21				26	1C
II.Optional subjects															
15	Molecular markers	DD	0309040215							1		2		2	V
16	Genetically Modified Organisms	DD	0309040216												
17	Epidemiology	DU/DD	0309040217							1		2		2	V
18	Biomaterials	DU/DD	0309040218												
Total: hours/credits/week									5E, 2V	6					4E,4V
Total/semester/year				29				30		27				30	1C
III. Facultative subjects															
19	Marketing	DU/DD	0309040319	1	2			3	V						
20	Consulting and technological design	DU/DD	0309040320	1	2			3	V						
21	Preparation of EU funding projects	DU/DD	0309040321	1	2			3	V						
IV. Graduation exam															
Passing the graduation exam		DD													