

CURRICULUM
Year of study: 1 (2021/2022)

I. Compulsory courses

No.	Courses	Formative category	Code	1-st semester (14 weeks)						2-nd semester 2 (14 săptăm)					
				No. hours/week						No. hours/week					
				C	S	L	P	Cr	FV	C	S	L	P	Cr.	FV
1	Chemistry	DF	0310010101	1		2		5	E						
2	Analytical chemistry and instrumental analysis 1	DD	0310010102	1		2		5	E						
3	Ecology and environment protection	DF	0310010103	2		2		5	E						
4	Informatics	DF	0310010104	1		2		4	V						
5	General biology	DF	0310010105	1		2		4	E						
6	General biotechnology	DD	0310010106	2				3	V						
7	Analytical 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	Matematics and statistics	DF	0310010110							2		2		4	E
11	Cell 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 1	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 courses															
Total: hours/credits/week									4E,4V						5E,3V
Total/semester/year				21				30		25				30	1C
III.Non-compulsory courses															
18	Tractor driving	DU/DD	0310010318						E	1		1		2	V
19	Psychology of education*	DC	0310010319	2	2			5	E						
20	Pedagogv I*	DC	0310010320							2	2			5	E

* Compulsory for DPPD

DEAN,
Prof.Daniel S.DEZMIREAN PhD

VICE RECTOR,
Prof.Ioana POP PhD

PROGRAM COORDINATOR
Prof.Marius ZĂHAN PhD

CURRICULUM

Year of study: 2 (2022/2023)

I. Compulsory courses

No.	Courses	Formative category	Cod	1-st semester (14 weeks)						2-nd semester 2 (14 săptăm)					
				No. hours/week						No. 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	Bioetics	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 culture	DD	0310020111							2		2		4	V
12	Practice 2	DS	0310020112							3 weeks (90 hours)				3	C
Total: hours/credits/week				10	0	8	0		3E,2V	11	0	12	0	30	4E,2V
Total/semester/year				18				26		23					1C
II.Optional courses															
13	Botanics	DF	0310020213	1		2		4	V						
14	Zoology	DU/DF	0310020214												
15	Medicinal plants	DU/DF	0310020215												
Total: hours/credits/week				3					3E,3V						4E,2V
Total/semester/year				21				30		23				30	1C
III.Non-compulsory courses															
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	Ergonomy and labor protection	DU/DD	0310020319	1		1		2	V						
20	Communication	DU/DD	0310020320							1		1		2	V
21	Carrer development	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

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CURRICULUM
Year of study: 3 (2023/2024)

I. Compulsory courses

No.	Courses	Formative category	Cod	1-st semester (14 weeks)						2-nd semester 2 (14 săptăm)					
				No. hours/week						No. hours/week					
				C	S	L	P	Cr	FV	C	S	L	P	Cr.	FV
1	Plant physiology	DF	0303030101	2		2		4	E						
2	Applied microbiology	DS	0303030102	2		2		4	E						
3	Animal genetic engeneering	DD	0303030103	2		2		4	E						
4	Enzimology	DD	0303030104	2		2		4	V						
5	Raw materials of plant origin	DS	0303030105	2		3		4	V						
6	Animal reproductive biology	DD	0303030106	2		3		5	E						
7	Plant cell and tissue culture	DD	0303030107	2		2		5	E						
8	Processing biotechnologies and quality control of plant production	DS	0303030108							2		2		4	E
9	Plant genetic engineering	DD	0303030109							2		2		4	E
10	Raw materials of animal origin	DS	0303030110							2		3		4	V
11	Biotehnology of reproduction 1	DS	0303030111							2		2		4	E
12	Micropropagation	DD	0303030112							1		2		3	V
13	Immunology	DS	0303030113							2		2		4	E
14	Applied biotechnologies in apiculture and sericulture	DS	0303030114							2		2		4	E
15	Practice 3	DS	0303030115							3 weeks (90 hours)				3	C
Total: hours/credits/week				14	0	16	0			13	0	15	0		5E,2V
Total/semester/year				30				30	5E,2V	28				30	1C
II.Optional courses															
Total: hours/credits/week															5E,2V
Total/semester/year				30				30	5E,2V	28				30	1C
III.Non-compulsory courses															
16	General agriculture	DD	303030316	1		2		3	V						
17	Regional development policies in agriculture	DU/DD	303030317							1		2		2	V
18	Car driving	DU/DD	303030318							1		2		1	V
18	Computer-based training*	DC	303030319	1	1			2	C						
19	Teaching Practice in Compulsory Pre-university Education*	DC	303030320		3			3	C						
19	Teaching Practice in Compulsory Pre-university Education 2*	DC	303030321								3			2	C
20	Classroom Management *	DC	303030322							1	1			3	E
DPPD Module graduation Exam Level 1														5	E

* Compulsory for DPPD

CURRICULUM
Year of study: 4 (2024/2025)

I. Compulsory courses

No.	Courses	Formative category	Cod	1-st semester (14 weeks)						2-nd semester 2 (14 săptăm)					
				No. hours/week						No. hours/week					
				C	S	L	P	Cr	FV	C	S	L	P	Cr.	FV
1	Biotechnology of reproduction 2	DS	0303040101	2		2		4	E						
2	Processing biotechnologies and quality control of animal production	DS	0303040102	2		2		5	E						
3	Toxicology	DD	0303040103	2		2		4	V						
4	Nutrition biotechnology and feeding animals	DS	0303040104	2		2		4	E						
5	Biotechnological methods for animal breeding	DD	0303040105	2		2		5	E						
6	Food safety and security and HACCP analysis	DS	0303040106	3		2		5	E						
7	Experimental technics	DD	0303040107	2		2		3	V						
8	Biotechnological methods for plant breeding	DS	0303040108							2		2		4	E
9	Biotechnology for recycling waste products	DD	0303040109							2		2		4	E
10	Management	DD	0303040110							2		2		3	E
11	Product authenticity testing	DD	0303040111							2		2		4	E
12	Biotechnology in acvaculture	DS	0303040112							1		1		3	V
13	Biomaterials		0303040113							1		2		3	V
14	Practice for the elaboration of the graduation project	DS	0303040114							120 hours				3	C
Total: hours/credits/week				15	0	14	0		5E	10	0	11	0		4E,2V
Total/semester/year				29				30	2 V	21				24	1C
II.Optional courses															
15	Molecular markers	DD	0303040215							1		2		3	V
16	Biotechnology for environmental protection	DU/DD	0303040216												
17	Animal pathology	DS	0303040217							2		2		3	V
18	Biotechnology for plant protection	DS	0303040218												
Total: hours/credits/week								5E,2V	7					4E,4V	
Total/semester/year				29				30		28				30	1C
III.Non-compulsory courses															
19	Preparation and preservation of biotechnological products	DD	0303040319	1	2			4	V						
20	Preparation of European funding projects	DU/DD	0303040320	1	2			3	V						
IV.Geraduation exam															
Passing the graduation exam		DD												10	E