

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 săpt)					
				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							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 courses

No.	Courses	Formative category	Code	1-st semester (14 weeks)						2-nd semester 2 (14 săpt)					
				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		4E,2V
Total/semester/year				18				26		23				30	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

* Compulsory for DPPD

CURRICULUM
Year of study: 3 (2023/2024)

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	Plant physiology	DF	0304030101	2		2		5	E						
2	Food microbiology	DS	0304030102	2		2		5	E						
3	Animal genetic engineering	DD	0304030103	2		2		4	E						
4	Raw materials of plant origin	DS	0304030104	2		3		4	E						
5	Enzimology	DD	0304030105	2		2		5	V						
6	Biotechnologies for obtaining functional foods and nutritional supplements	DU/DD	0304030106	2		2		5	V						
7	Plant genetic engineering	DD	0304030107							2		2		4	E
8	Biotechnologies in milling and bakery industry and quality control	DS	0304030108							2		2		5	E
9	Raw materials of animal origin	DS	0304030109							2		3		5	V
10	Food chemistry	DS	0304030110							2		2		4	E
11	Extractive product technology	DS	0304030111							3		3		5	E
12	Applied biotechnologies in apiculture and sericulture	DS	0304030112							2		2		4	E
13	Practice 3	DS	0304030113							3 weeks (90 hours)				3	C
Total: hours/credits/week				12	0	13	0			13	0	14	0		5E,1V
Total/semester/year				25				30	4E,2V	27				30	1C
II.Optional courses															
Total: hours/credits/week															5E,1V
Total/semester/year				25				30	4E,2V	27				30	1C
III.Non-compulsory courses															
14	Car driving 1	DU/DD	0304030314	1		2		2	V						
15	Car driving 2	DU/DD	0304030315							1		2		2	V
16	Computer-based training*	DC	0304030316	1	1			2	C						
17	Teaching Practice in Compulsory Pre-university Education 1*	DC	0304030317		3			3	C						
18	Teaching Practice in Compulsory Pre-university Education 2*	DC	0304030318								3			2	C
19	Computer Assisted Training*	DC	0304030319							1	1			3	E
DPPD Module Graduation Exam Level 1														5	E

* Compulsory for DPPD

CURRICULUM
Study years: 4 (2023/2024)

I. Discipline obligatorii

No.	Courses	Formative category	Code	1-st semester (14 weeks)						2-nd semester 2 (14 săpt)					
				No. hours/week						No. hours/week					
				C	S	L	P	Cr	FV	C	S	L	P	Cr.	FV
1	Fermentative products technology	DS	0304040101	3		3		7	E						
2	Processing biotechnologies and quality control of animal production	DS	0304040102	2		2		5	E						
3	Toxicology	DD	0304040103	2		2		5	E						
4	Food safety and security and HACCP analysis	DS	0304040104	3		2		6	E						
5	Experimental technics	DS	0304040105	2		2		3	V						
6	Food Additives	DS	0304040106							2		2		5	E
7	Product authenticity testing	DD	0304040107							2		2		5	E
8	Hygiene of food industry units	DS	0304040108							1		1		3	E
9	Management	DD	0304040109							2		2		4	E
10	Biotehnology for recycling waste products	DD	0304040110							2		2		4	V
11	Practice for the elaboration of the graduation project	DS	0304040111							120 ore				3	C
Total: hours/credits/week				12	0	11	0		4E,1V	9	0	9	0		4E,1V.
Total/semester/year				23				26		18				24	1C
II.Optional courses															
12	Principles of human nutrition	DD	0304040212							1		2		3	V
13	Molecular markers	DD	0304030213												
14	Natural plant extracts	DU/DD	0304020214							1		2		3	V
15	Foodborne diseases	DU/DD	0304010215												
16	Sensory analysis of food products	DU/DD	0304000216	1		2		4	V						
17	Conditioning and preservation of biotechnological products	DD	0303990217												
Total: hours/credits/week				3				4	4E,2V	6				6	4E,3V
Total/semester/year				26				30		24				30	1C
III.Non-compulsory courses															
18	Preparation of European funding projects	DU/DD	0304040318	1		2		3	V						
IV.Graduation Exam															
Passing the graduation exam		DS												10	