

U.L.S. "King Michael I" from Timișoara
Faculty of Bioengineering of Animal Resources
 University studies: **Bachelor**
 Domain: **Biotechnologies**
 Study programme: **Biotechnologies (in Romanian)**
 Form of study: **Full-Time**
 Duration of the study programme: **4 years/8 semesters**

Approved RECTOR,
 Prof. Cosmin Alin POPESCU, Ph.D.

Date: 20____

CURRICULUM
1st year, academic year 2023/2024

No. crt.	DISCIPLINE	Code	Semester 1 (14 weeks)								Semester 2 (14 weeks)								Total /year					
			C	S	L	P	Total teaching hours (T.H.)	Hours Cv.	Hours I.S.	CR.	E.F.	C	S	L	P	Total teaching hours (T.H.)	Hours Cv.	Hours I.S.	CR.	E.F.	Hours Cv.	CR.	Hours I.S.	
COMPULSORY Disciplines:																								
1	Anatomy and Embryology	BT.01.F.1	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69	
2	Biochemistry	BT.02.F.1	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69	
3	Analytical Chemistry and Instrumental Analysis	BT.03.D.1	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69	
4	Mathematics and Statistics	BT.04.F.1	1	1	-	-	28	42	22	2	E	-	-	-	-	-	-	-	-	-	42	2	22	
5	Chemistry	BT.05.F.1	1	-	2	-	42	56	58	4	E	-	-	-	-	-	-	-	-	-	56	4	58	
6	General Microbiology	BT.06.F.1	2	-	2	-	56	84	69	5	C	-	-	-	-	-	-	-	-	-	84	5	69	
7	Informatics	BT.07.F.1	0	2	-	-	28	28	22	2	E	-	-	-	-	-	-	-	-	-	28	2	22	
8	General Biotechnologies	BT.08.D.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	84	5	69	
9	Botany	BT.09.F.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44	
10	Biophysics	BT.10.F.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	C	84	4	44	
11	Cell Biology	BT.11.F.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	84	5	69	
12	Ecology and Environmental Protection	BT.12.F.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44	
13	Physiology 1	BT.13.F.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	84	5	69	
14	Practical Training	BT.14.D.2	-	-	-	-	-	-	-	-	-	-	-	2,14	-	60	60	15	3	C	60	3	15	
-	OPTIONAL disciplines	-	0	2	-	-	28	28	22	2	C	-	-	-	-	-	-	-	-	-	28	2	22	
TOTAL			10	5	10	0	350	490	400	30	6E+2C	12	0	12	0	396	564	354	30	5E+2C	1054	60	754	
			25						400	30		24						354	30			37,64	60	754
OPTIONAL disciplines (1 of 2):																								
15	Foreign language 1 (Romanian)	BT.15.C.1	0	2	-	-	28	28	22	2	C	-	-	-	-	-	-	-	-	-	28	2	22	
16	Foreign language 2 (French)	BT.16.C.1	0	2	-	-	28	28	22	2	C	-	-	-	-	-	-	-	-	-	28	2	22	
FACULTATIVE Disciplines:																								
1	Sports 1 (elective)	BT.01.C.1	0	1	-	-	14	14	-	1	C	-	-	-	-	-	-	-	-	-	14	1	0	
2	Psychology of Education	DPPD.02.C.1	2	2	-	-	56	84	-	5	E	-	-	-	-	-	-	-	-	-	84	5	0	
3	Sports 2 (elective)	BT.03.C.2	-	-	-	-	-	-	-	-	-	0	1	-	-	14	14	-	2	C	14	2	0	
4	Pedagogy I (Foundations of Pedagogy, Curriculum Theory and Methodology)	DPPD.04.C.2	-	-	-	-	-	-	-	-	-	2	2	-	-	56	84	-	5	E	84	5	0	
Note: C - no. of course hours /week; S - no. of seminar hours /week; L - no. of practical training hours / laboratory /week; P - no. of project hours /week; hours Cv - conventional hours; CR - credits; hours I.S. - hours for individual study; E.F. - evaluation form: E - exam; C - colloquy; P - project; Code: BE - Biotechnologies (in English) / discipline order/ discipline formative category: F - fundamental; C - complementary; D - in the domain; S - specialty/ semester: 1 to 8.			Total activity hours / semestre:	No. hours / week	No. weeks / semestre	Teaching hours / week	Teaching hours / semestre	I.S. / semestre		Total activity hours / semestre:	No. hours / week	No. weeks / semestre	Teaching hours / week	Teaching hours / semestre	I.S. / semestre									
			750	0,816	14	25	350		400		750	0,628	14	24	336									

Advised DEAN,
 Prof. Ioan PETI, PhD
 Date: 28.06.2023

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 Domain: **Biotechnologies**
 Study programme: **Biotechnologies (in Romanian)**
 Form of study: **Full-Time**
 Duration of the study programme: **4 years/8 semesters**

Approved RECTOR,
 Prof. Cosmin Alin POPESCU, Ph.D.

Date: 20__

CURRICULUM
2nd year, academic year 2023/2024

No. crt.	DISCIPLINE	Code	Semester 3 (14 weeks)										Semester 4 (14 weeks)										Total /year		
			C	S	L	P	Total teaching hours (T.H.)	Hours Cv.	Hours I.S.	CR.	E.F.	C	S	L	P	Total teaching hours (T.H.)	Hours Cv.	Hours I.S.	CR.	E.F.	Hours Cv.	CR.	Hours I.S.		
COMPULSORY disciplines:																									
1	Genetics	BT.01.F.3	1	-	2	-	42	56	58	4	E	-	-	-	-	-	-	-	-	-	-	56	4	58	
2	Cell and Tissue Cultures 1	BT.02.D.3	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	84	5	69	
3	Applied Microbiology	BT.03.S.3	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	84	5	69	
4	Experimental Techniques	BT.04.D.3	1	-	2	-	42	56	33	3	C	-	-	-	-	-	-	-	-	-	-	56	3	33	
5	Physiology 2	BT.05.F.3	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	84	5	69	
6	Bioethics and Biosecurity in Biotechnology	BT.06.D.3	2	1	-	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	-	56	4	58	
7	Communication	BT.07.C.4	-	-	-	-	-	-	-	-	-	1	1	-	-	28	42	47	3	E	-	42	3	47	
8	Quantitative Genetics	BT.08.D.4	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	-	84	4	44	
9	Molecular Biology	BT.09.D.4	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	-	84	4	44	
10	Cell and Tissue Cultures 2	BT.10.D.4	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	-	84	4	44	
11	General Enzymology	BT.11.F.4	-	-	-	-	-	-	-	-	-	1	-	2	-	42	56	58	4	C	-	56	4	58	
12	Agricultural technologies	BT.12.S.4	-	-	-	-	-	-	-	-	-	2	-	2	-	42	56	58	4	E	-	56	4	58	
13	Reproduction Biotechnologies	BT.13.S.4	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	C	-	84	4	44	
14	Practical Training	BT.14.D.4	-	-	-	-	-	-	-	-	-	-	-	2,14	-	60	60	15	3	C	-	60	3	15	
-	OPTIONAL disciplines		2	-	1	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	-	56	4	58	
TOTAL			12	1	11	0	336	476	414	30	4E+3C	12	1	12	0	396	550	354	30	5E+3C		1026	60	768	
OPTIONAL disciplines (1 of 2):																									
15	Cell Pathology	BT.14.S.3	2	-	1	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	-	56	4	58	
16	Animal Pathology	BT.16.S.3	2	-	1	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	-	56	4	58	
Discipline FACULTATIVE:																									
1	Ethology	BT.01.D.3	1	-	2	-	42	56	-	3	C	-	-	-	-	-	-	-	-	-	-	56	3	0	
2	Pedagogy II (Theory and Methodology of Education, Evaluation Theory and Methodology)	DPPD.02.C.3	2	2	-	-	56	84	-	5	E	-	-	-	-	-	-	-	-	-	-	84	5	0	
3	Didactics of Specialization	DPPD.03.C.4	-	-	-	-	-	-	-	-	-	2	2	-	-	56	84	-	5	E	-	84	5	0	
Note: C - no. of course hours /week; S - no. of seminar hours /week; L - no. of practical training hours / laboratory /week; P - no. of project hours /week; hours Cv - conventional hours; CR - credits; hours I.S.- hours for individual study; E.F. - evaluation form: E - exam; C - colloquy; P - project; Code: BE - Biotechnologies (in English) / discipline order/ discipline formative category: F - fundamental; C - complementary; D - in the domain; S - specialty/ semester: 1 to 8.			Total activity hours / semester:	No. hours / week	No. weeks / semestre	Teaching hours / week	Teaching hours / semestre	I.S. / semestre			Total activity hours / semester:	No. hours / week	No. weeks / semestre	Teaching hours / week	Teaching hours / semestre	I.S. / semestre									
			750	0,870	14	24	336		414		750	0,618	14	25	350		340								

Advised DEAN,
 Prof. Ioan PETI, PhD
 Date: 28.06.2023

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 Domain: **Biotechnologies**
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 Form of study: **Full-Time**
 Duration of the study programme: **4 years/8 semesters**

Approved RECTOR,
 Prof. Cosmin Alin POPESCU, Ph.D.

Date: 20__

CURRICULUM
3rd year, academic year 2023/2024

No. crt.	DISCIPLINE	Code	Semester 5 (14 weeks)									Semester 6 (14 weeks)									Total /year		
			C	S	L	P	Total teaching hours (T.H.)	Hours Cv.	Hours I.S.	CR.	E.F.	C	S	L	P	Total teaching hours (T.H.)	Hours Cv.	Hours I.S.	CR.	E.F.	Hours Cv.	CR.	Hours I.S.
COMPULSORY disciplines:																							
1	Genetic modified organisms	BT.01.D.5	2	-	2	-	56	84	94	6	C	-	-	-	-	-	-	-	-	-	84	6	94
2	Immunology	BT.02.S.5	2	-	1	-	42	56	58	4	E	-	-	-	-	-	-	-	-	-	56	4	58
3	Laboratory Diagnosis	BT.03.S.5	2	-	1	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	56	4	58
4	Molecular Markers	BT.04.D.5	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69
5	Biotechnologies in Beekeeping and Sericulture	BT.05.S.5	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69
6	Biotechnologies in Aquaculture	BT.06.S.6	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44
7	Biotechnological Installations	BT.07.D.6	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44
8	Virology	BT.08.S.6	-	-	-	-	-	-	-	-	-	2	-	1	-	42	56	58	4	E	56	4	58
9	Special Enzymology	BT.09.D.6	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	C	84	4	44
10	Practical Training	BT.10.S.6	-	-	-	-	-	-	-	-	-	-	-	4,28	-	120	120	5	5	C	120	5	5
-	OPTIONAL disciplines I	-	3	-	3	-	84	126	66	6	E	-	-	-	-	-	-	-	-	-	126	6	66
-	OPTIONAL disciplines II	-	-	-	-	-	-	-	-	-	-	3	-	3	-	84	126	66	6	E	126	6	66
-	OPTIONAL disciplines III	-	-	-	-	-	-	-	-	-	-	2	1	-	-	42	56	33	3	E	56	3	33
TOTAL			13	0	11	0	336	490	414	30	4E+2C	13	1	10	0	456	610	294	30	5E+2C	1100 39,286	60	708
OPTIONAL disciplines I (1 of 2):																							
11	Ecological Technologies for Monogastric Animals Husbandry	BT.11.S.5	3	-	3	-	84	126	66	6	E	-	-	-	-	-	-	-	-	-	126	6	66
12	Technologies for Animal Husbandry 1	BT.12.S.5	3	-	3	-	84	126	66	6	E	-	-	-	-	-	-	-	-	-	126	6	66
OPTIONAL disciplines II (1 of 2):																							
13	Ecological Technologies for Polygastric Animals Husbandry	BT.13.S.6	-	-	-	-	-	-	-	-	-	3	-	3	-	84	126	66	6	E	126	6	66
14	Technologies for Animal Husbandry 2	BT.14.S.6	-	-	-	-	-	-	-	-	-	3	-	3	-	84	126	66	6	E	126	6	66
OPTIONAL disciplines III (1 of 2):																							
15	Entrepreneurship in Biotechnology	BT.15.C.6	-	-	-	-	-	-	-	-	-	2	1	-	-	42	56	33	3	E	56	3	33
16	Ethics and academic integrity	BT.16.C.6	-	-	-	-	-	-	-	-	-	2	1	-	-	42	56	33	3	E	56	3	33
Discipline FACULTATIVE:																							
1	Equitation	BT.01.S.6	-	-	-	-	-	-	-	-	-	1	-	2	-	42	56	-	3	C	56	3	0
2	Computer-assisted Training	DPPD.02.C.5	1	1	-	-	28	42	-	2	C	-	-	-	-	-	-	-	-	-	42	2	0
3	Teaching Practice in the Compulsory Secondary Education (1)	DPPD.03.C.5	0	3	-	-	42	42	-	3	C	-	-	-	-	-	-	-	-	-	42	3	0
4	Classroom Management	DPPD.04.C.6	-	-	-	-	-	-	-	-	-	1	1	-	-	28	42	-	3	E	42	3	0
5	Teaching Practice in the Compulsory Secondary Education (2)	DPPD.05.C.6	-	-	-	-	-	-	-	-	-	0	3	-	-	36	36	-	2	C	36	2	0
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			750	0,845	14	24	336	414	750	0,482	14	24	336	294									

Advised DEAN,
 Prof. Ioan PETI, PhD
 Date: 28.06.2023

U.L.S. "King Michael I" from Timișoara
Faculty of Bioengineering of Animal Resources
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 Domain: **Biotechnologies**
 Study programme: **Biotechnologies (in Romanian)**
 Form of study: **Full-Time**
 Duration of the study programme: **4 years/8 semesters**

Approved RECTOR,
 Prof. Cosmin Alin POPESCU, Ph.D.

Date: 20__

CURRICULUM
4th year, academic year 2023/2024

No. crt.	DISCIPLINE	Code	Semester 7 (14 weeks)									Semester 8 (14 weeks)									Total /year			
			C	S	L	P	Total teaching hours (T.H.)	Hours Cv.	Hours I.S.	CR.	E.F.	C	S	L	P	Total teaching hours (T.H.)	Hours Cv.	Hours I.S.	CR.	E.F.	Hours Cv.	CR.	Hours I.S.	
COMPULSORY disciplines:																								
1	Technology of Biosynthesis Products	BT.01.S.7	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69	
2	Genetic Engineering 1	BT.02.D.7	2	-	2	-	56	84	94	6	E	-	-	-	-	-	-	-	-	-	84	6	94	
3	Management and Marketing of Biotechnological Products	BT.03.D.7	2	2	-	-	56	84	44	4	C	-	-	-	-	-	-	-	-	-	84	4	44	
4	Biotechnologies in Animal Nutrition	BT.04.S.7	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69	
5	Biotechnologies for the Production of Vaccines, Sera and Diagnostic Bioproducts	BT.05.S.7	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69	
6	Biotechnological Therapy Products	BT.06.S.7	2	-	2	-	56	84	69	5	C	-	-	-	-	-	-	-	-	-	84	5	69	
7	Environmental Protection Biotechnologies	BT.07.S.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	84	5	69	
8	Genetic Engineering 2	BT.08.D.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	94	6	E	84	6	94	
9	Toxicology	BT.09.D.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44	
10	Biotechnologies for Waste Recovery	BT.10.D.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44	
11	Quality Management	BT.11.D.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	C	84	4	44	
12	Biotechnological Processing of Plant Raw Materials and Animal Production	BT.12.S.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44	
13	Practical Training (elaboration of the diploma project)	BT.13.S.8	-	-	-	-	-	-	-	-	-	-	-	2,14	-	60	60	15	3	C	60	3	15	
TOTAL			12	2	10	0	336	504	414	30	4E+2C	12	0	12	0	396	564	354	30	5E+2C	1068	60	768	
			24									24												
-	DIPLOMA EXAM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	E	-	10	-	
FACULTATIVE Disciplines:																								
1	Basics of Entrepreneurship / Starting a Business / Entrepreneurship	BT.01.C.7	1	2	-	-	42	56	-	3	C	-	-	-	-	-	-	-	-	-	56	3	0	
2	Innovative Entrepreneurship / Entrepreneurship in Animal Husbandry / Entrepreneurial Design	BT.02.C.8	-	-	-	-	-	-	-	-	-	1	2	-	-	42	56	-	3	C	56	3	0	
3	Driving 1 (elective)	BT.03.C.7	1	-	2	-	42	56	-	2	C	-	-	-	-	-	-	-	-	-	56	2	0	
4	Driving 2 (elective)	BT.04.C.8	-	-	-	-	-	-	-	-	-	1	-	2	-	42	56	-	2	C	56	2	0	
Note: C - no. of course hours /week; S - no. of seminar hours /week; L - no. of practical training hours / laboratory /week; P - no. of project hours /week; hours Cv - conventional hours; CR - credits; hours I.S.- hours for individual study; E.F. - evaluation form: E - exam; C - colloquy; P - project; Code: BE - Biotechnologies (in English) / discipline order/ discipline formative category: F - fundamental; C - complementary; D - in the domain; S - specialty/ semester: 1 to 8.			Total activity hours / semestre:	No. hours / week	No. weeks / semestre	Teaching hours / week	Teaching hours / semestre		I.S. / semestre		Total activity hours / semestre:	No. hours / week	No. weeks / semestre	Teaching hours / week	Teaching hours / semestre		I.S. / semestre							
			750	0,821	14	24	336		414		750	0,628	14	24	336		354							

Advised DEAN,
 Prof. Ioan PETI, PhD
 Date: 28.06.2023