

University of Life Sciences "King Mihai I" from Timișoara
Faculty of Bioengineering of Animal Resources
 Undergraduate studies: **Bachelor's Degree**
 Field of study: **Biotechnology**
 Study programme: **Biotechnology (full English)**
 Type of education and attendance: **in person, Full-Time**
 Duration of the study programme: **4 years/8 semesters**

Approved by the RECTOR,
 Prof. Eng. Cosmin Alin POPESCU, PhD.

Date:

CURRICULUM
for the 1st year of study, academic year 2025/2026

No.	SUBJECT	Subject Code	Semester 1 (14 weeks)										Semester 2 (14 weeks)										Total /year							
			L	S	Lab	P	Total Teaching Hours (T.T.H.)	Cv. Hours	I.S. Hours	ECTS credits	E.F.	C	S	L	P	Total Teaching Hours (T.T.H.)	Hours Cv.	I.S. Hours	ECTS credits	E.F.	Cv. Hours	ECTS credits	I.S. Hours							
COMPULSORY subjects:																														
1	Anatomy and embryology	BTE.01.F.DOB.1	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	5	69	
2	Biochemistry	BTE.02.S.DOB.1	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	5	69	
3	Analytical chemistry and instrumental analysis	BTE.03.S.DOB.1	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	5	69	
4	Mathematics and statistics	BTE.04.F.DOB.1	1	1	-	-	28	42	22	2	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	2	22	
5	Chemistry	BTE.05.F.DOB.1	1	-	2	-	42	56	58	4	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	4	58	
6	General microbiology	BTE.06.F.DOB.1	2	-	2	-	56	84	69	5	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	5	69	
7	Informatics	BTE.07.F.DOB.1	0	2	-	-	28	28	22	2	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	2	22	
8	General biotechnologies	BTE.08.S.DOB.2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	-	-	-	84	5	69	
9	Botany	BTE.09.F.DOB.2	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	-	-	-	84	4	44		
10	Biophysics	BTE.10.F.DOB.2	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	C	-	-	-	84	4	44		
11	Cell biology	BTE.11.F.DOB.2	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	-	-	-	84	5	69		
12	Ecology and environmental protection	BTE.12.S.DOB.2	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	-	-	-	84	4	44		
13	Physiology 1	BTE.13.S.DOB.2	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	-	-	-	84	5	69		
14	Practical training	BTE.14.S.DOB.2	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	15	3	C	-	-	0	3	15		
-	ELECTIVE subjects	-	0	2	-	-	28	28	22	2	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	2	22	
TOTAL			10	5	10	0									12	0	12	0	336	504	354	30	5E+2C			994	60	754		
			25				350	490	400	30	6E+2C	24																		
ELECTIVE subjects (choose 1 out of 2):																														
15	Foreign language 1 (Romanian)	BTE.15.C.DOP.1	0	2	-	-	28	28	22	2	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	2	22	
16	Foreign language 2 (French)	BTE.16.C.DOP.1	0	2	-	-	28	28	22	2	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	2	22	
FACULTATIVE (OPTIONAL) subjects:																														
1	Physical education 1	BTE.01.C.DFA.1	0	1	-	-	14	14	-	1	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	1	0		
2	Physical education 2	BTE.02.C.DFA.2	-	-	-	-	-	-	-	-	-	-	-	0	1	-	-	14	14	-	2	C	-	-	-	14	2	0		
Legend: L - no. of lectures hours per week; S - no. of seminar hours per week; Lab - no. of practical work/laboratory hours per week; P - no. of project hours per week; Cv. hours - Conventional hours; CR - ECTS credits; I.S. Hours - Individual Study hours; E.F. - evaluation form: E - exam; C - colloquium; P - Project; Code: BE - Biotechnology (in English) / Subject order/ Formative category of the Subject: F - Fundamental; C - Complementary; D - Field-related; S - specialty / semester: 1 to 8.			Total activity hours / semester:	I.S. Hours / Cv. Hours	No. of weeks / semester	Teaching hours / week	Teaching hours / semester		I.S. Hours / semester			Total activity hours / semester:	I.S. Hours / Cv. Hours	No. of weeks / semester	Teaching hours / week	Teaching hours / semester		I.S. Hours / semester												
			750	0.816	14	25	350		400			750	0.702	14	24	336		354												

Approved by the DEAN,
 Prof. Dipl.Eng. Ioan PETI, PhD.
 Date: 08.07.2025□

University of Life Sciences "King Mihai I" from Timișoara
Faculty of Bioengineering of Animal Resources
 Undergraduate studies: **Bachelor's Degree**
 Field of study: **Biotechnology**
 Study programme: **Biotechnology (full English)**
 Type of education and attendance: **in person, Full-Time**
 Duration of the study programme: **4 years/8 semesters**

Approved by the RECTOR,
 Prof. Eng. Cosmin Alin POPESCU, PhD.

Date:

CURRICULUM
for the 2nd year of study, academic year 2025/2026

No.	SUBJECT	Subject Code	Semester 3 (14 weeks)									Semester 4 (14 weeks)									Total /year				
			L	S	Lab	P	Total Teaching Hours (T.T.H.)	Cv. Hours	I.S. Hours	ECTS credits	E.F.	C	S	L	P	Total Teaching Hours (T.T.H.)	Hours Cv.	I.S. Hours	ECTS credits	E.F.	Cv. Hours	ECTS credits	I.S. Hours		
COMPULSORY subjects:																									
1	Genetics	BTE.01.S.DOB.3	1	-	2	-	42	56	58	4	E	-	-	-	-	-	-	-	-	-	-	56	4	58	
2	Cell and tissue cultures 1	BTE.02.S.DOB.3	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	84	5	69	
3	Applied microbiology	BTE.03.S.DOB.3	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	84	5	69	
4	Experimental techniques	BTE.04.S.DOB.3	1	-	2	-	42	56	33	3	C	-	-	-	-	-	-	-	-	-	-	56	3	33	
5	Physiology 2	BTE.05.S.DOB.3	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	-	84	5	69	
6	Bioethics and biosecurity in biotechnologies	BTE.06.S.DOB.3	2	1	-	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	-	56	4	58	
7	Communication	BTE.07.C.DOB.4	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	28	42	47	3	E	42	3	47
8	Quantitative genetics	BTE.08.S.DOB.4	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	56	84	44	4	E	84	4	44
9	Molecular biology	BTE.09.S.DOB.4	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	56	84	44	4	E	84	4	44
10	Cell and tissue cultures 2	BTE.10.S.DOB.4	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	56	84	44	4	E	84	4	44
11	General enzymology	BTE.11.F.DOB.4	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	42	56	58	4	C	56	4	58
12	Agricultural technologies	BTE.12.S.DOB.4	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	56	84	44	4	E	84	4	44
13	Reproduction biotechnologies	BTE.13.S.DOB.4	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	56	84	44	4	C	84	4	44
14	Practical training	BTE.14.S.DOB.4	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	15	3	C	0	3	15
-	ELECTIVE subjects	-	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	350	518	340	30	5E+3C	994	60	754		
			24									25										35.5			
ELECTIVE subjects (choose 1 out of 2):																									
15	Cellular pathology	BTE.15.S.DOP.3	2	-	1	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	-	56	4	58	
16	Animal pathology	BTE.16.S.DOP.3	2	-	1	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	-	56	4	58	
FACULTATIVE (OPTIONAL) subjects:																									
1	Ethology	BTE.01.S.DFA.3	1	-	2	-	42	56	-	3	C	-	-	-	-	-	-	-	-	-	-	56	3	0	
Legend: L - no. of lectures hours per week; S - no. of seminar hours per week; Lab - no. of practical work/laboratory hours per week; P - no. of project hours per week; Cv. hours - Conventional hours; CR - ECTS credits; I.S. Hours - Individual Study hours; E.F. - evaluation form: E - exam; C - colloquium; P - Project; Code: BE - Biotechnology (in English) / Subject order/ Formative category of the Subject: F - Fundamental; C - Complementary; D - Field-related; S - specialty / semester: 1 to 8.			Total activity hours / semester:	I.S. Hours / Cv. Hours	No. of weeks / semester	Teaching hours / week	Teaching hours / semester	I.S. Hours / semester			Total activity hours / semester:	I.S. Hours / Cv. Hours	No. of weeks / semester	Teaching hours / week	Teaching hours / semester	I.S. Hours / semester									
			750	0.870	14	24	336		414		750	0.656	14	25	350		340								

Approved by the DEAN,
 Prof. Dipl.Eng. Ioan PETI, PhD.

Data: 08.07.2025□

University of Life Sciences "King Mihai I" from Timișoara
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 Undergraduate studies: **Bachelor's Degree**
 Field of study: **Biotechnology**
 Study programme: **Biotechnology (full English)**
 Type of education and attendance: **in person, Full-Time**
 Duration of the study programme: **4 years/8 semesters**

Approved by the RECTOR,
 Prof. Eng. Cosmin Alin POPESCU, PhD.

Date:

CURRICULUM
for the 3rd year of study, academic year 2025/2026

No.	SUBJECT	Subject Code	Semester 5 (14 weeks)										Semester 6 (14 weeks)										Total /year		
			L	S	Lab	P	Total Teaching Hours (T.T.H.)	Cv. Hours	I.S. Hours	ECTS credits	E.F.	C	S	L	P	Total Teaching Hours (T.T.H.)	Hours Cv.	I.S. Hours	ECTS credits	E.F.	Cv. Hours	ECTS credits	I.S. Hours		
COMPULSORY subjects:																									
1	Organisme modificate genetic	BTE.01.S.DOB.5	2	-	2	-	56	84	69	5	C	-	-	-	-	-	-	-	-	-	84	5	69		
2	Imunologie	BTE.02.S.DOB.5	2	-	1	-	42	56	83	5	E	-	-	-	-	-	-	-	-	-	56	5	83		
3	Diagnostic de laborator	BTE.03.S.DOB.5	2	-	1	-	42	56	58	4	C	-	-	-	-	-	-	-	-	-	56	4	58		
4	Markeri moleculari	BTE.04.S.DOB.5	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69		
5	Biotehnologii în apicultură și sericultură	BTE.05.S.DOB.5	2	-	2	-	56	84	44	4	E	-	-	-	-	-	-	-	-	-	84	4	44		
6	Etică și integritate academică	BTE.06.C.DOB.5	1	-	-	-	14	28	36	2	C	-	-	-	-	-	-	-	-	-	28	2	36		
7	Biotehnologii în acvacultură	BTE.07.S.DOB.6	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44		
8	Instalații biotehnologice	BTE.08.S.DOB.6	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44		
9	Virologie	BTE.09.S.DOB.6	-	-	-	-	-	-	-	-	-	2	-	1	-	42	56	58	4	E	56	4	58		
10	Enzimologie specială	BTE.10.S.DOB.6	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	C	84	5	69		
11	Practică	BTE.11.S.DOB.6	-	-	-	-	-	-	-	-	-	-	-	120	-	-	-	5	5	C	0	5	5		
-	DISCIPLINE opționale I	-	3	-	3	-	84	126	41	5	E	-	-	-	-	-	-	-	-	-	126	5	41		
-	DISCIPLINE opționale II	-	-	-	-	-	-	-	-	-	-	3	-	3	-	84	126	41	5	E	126	5	41		
-	DISCIPLINE opționale III	-	-	-	-	-	-	-	-	-	-	2	1	-	-	42	56	33	3	E	56	3	33		
TOTAL			14	0	11	0	350	518	400	30	4E+3C	13	1	10	0	336	490	294	30	5E+2C	1008	60	694		
ELECTIVE subjects I (choose 1 out of 2):																									
12	Ecological technologies for monogastric animal husbandry	BTE.12.S.DOP.5	3	-	3	-	84	126	41	6	E	-	-	-	-	-	-	-	-	-	126	6	41		
13	Technologies for animal husbandry 1	BTE.13.S.DOP.5	3	-	3	-	84	126	41	6	E	-	-	-	-	-	-	-	-	-	126	6	41		
ELECTIVE subjects II (choose 1 out of 2):																									
14	Ecological technologies for polygastric animal husbandry	BTE.14.S.DOP.6	-	-	-	-	-	-	-	-	-	3	-	3	-	84	126	41	5	E	126	5	41		
15	Technologies for animal husbandry 2	BTE.15.S.DOP.6	-	-	-	-	-	-	-	-	-	3	-	3	-	84	126	41	5	E	126	5	41		
ELECTIVE subjects III (choose 1 out of 2):																									
16	Entrepreneurship in biotechnology	BTE.16.C.DOP.6	-	-	-	-	-	-	-	-	-	2	1	-	-	42	56	33	3	E	56	3	33		
17	Traceabilit	BTE.17.C.DOP.6	-	-	-	-	-	-	-	-	-	2	1	-	-	42	56	33	3	E	56	3	33		
FACULTATIVE (OPTIONAL) subjects:																									
1	Bioinformatics	BTE.01.S.DFA.5	1	-	2	-	42	56	-	3	C	-	-	-	-	-	-	-	-	-	56	3	0		
2	Equitation	BTE.02.S.DFA.6	-	-	-	-	-	-	-	-	-	1	-	2	-	42	56	-	3	C	56	3	0		
Legend: L - no. of lectures hours per week; S - no. of seminar hours per week; Lab - no. of practical work/laboratory hours per week; P - no. of project hours per week; Cv. hours - Conventional hours; CR - ECTS credits; I.S. Hours - Individual Study hours; E.F. - evaluation form: E - exam; C - colloquium; P - Project; Code: BE - Biotechnology (in English) / Subject order/ Formative category of the Subject; F - Fundamental; C - Complementary; D - Field-related; S - specialty / semester: 1 to 8.																									
			Total activity hours / semester:	I.S. Hours / Cv. Hours	No. of weeks / semester	Teaching hours / week	Teaching hours / semester		I.S. Hours / semester		Total activity hours / semester:	I.S. Hours / Cv. Hours	No. of weeks / semester	Teaching hours / week	Teaching hours / semester		I.S. Hours / semester								
			750	0.772	14	25	350		400		750	0.6	14	24	336		294								

Approved by the DEAN,
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 Data: 08.07.2025□

University of Life Sciences "King Mihai I" from Timișoara
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 Undergraduate studies: **Bachelor's Degree**
 Field of study: **Biotechnology**
 Study programme: **Biotechnology (full English)**
 Type of education and attendance: **in person, Full-Time**
 Duration of the study programme: **4 years/8 semesters**

Approved by the RECTOR,
 Prof. Eng. Cosmin Alin POPESCU, PhD.

Date:

CURRICULUM
for the 4th year of study, academic year 2025/2026

No.	SUBJECT	Subject Code	Semester 7 (14 weeks)									Semester 8 (14 weeks)									Total /year		
			L	S	Lab	P	Total Teaching Hours (T.T.H.)	Cv. Hours	I.S. Hours	ECTS credits	E.F.	C	S	L	P	Total Teaching Hours (T.T.H.)	Hours Cv.	I.S. Hours	ECTS credits	E.F.	Cv. Hours	ECTS credits	I.S. Hours
COMPULSORY subjects:																							
1	Technology of biosynthesis products	BTE.01.S.DOB.7	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69
2	Genetic engineering 1	BTE.02.S.DOB.7	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69
3	Management and marketing of biotechnological products	BTE.03.S.DOB.7	2	-	2	-	56	84	69	5	C	-	-	-	-	-	-	-	-	-	84	5	69
4	Biotechnologies in animal nutrition	BTE.04.S.DOB.7	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69
5	Biotechnologies for the production of vaccines, serums and diagnostic biopreparations	BTE.05.S.DOB.7	2	-	2	-	56	84	69	5	E	-	-	-	-	-	-	-	-	-	84	5	69
6	Biotechnological therapeutic products	BTE.06.S.DOB.7	2	-	2	-	56	84	69	5	C	-	-	-	-	-	-	-	-	-	84	5	69
7	Environmental protection biotechnologies	BTE.07.S.DOB.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	84	5	69
8	Genetic engineering 2	BTE.08.S.DOB.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	69	5	E	84	5	69
9	Toxicology	BTE.09.S.DOB.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44
10	Biotechnologies for waste recovery	BTE.10.S.DOB.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	19	3	E	84	3	19
11	Biotechnological processing of raw plant materials and animal products	BTE.11.S.DOB.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	44	4	E	84	4	44
12	DIPLOMA project writing	BTE.12.S.DOB.8	-	-	-	-	-	-	-	-	-	-	-	126	-	-	24	6	C	0	6	24	
-	ELECTIVE subjects I	-	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	19	3	C	84	3	19
TOTAL			12	0	12	0	336	504	414	30	4E+2C	12	0	12	0	336	504	288	30	5E+2C	1008	60	702
-	DIPLOMA DEFENSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	E	-	10	-	
ELECTIVE subjects I (choose 1 out of 2):																							
13	Quality management	BTE.13.S.DOP.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	19	3	C	84	3	19
14	Innovative Entrepreneurship	BTE.14.S.DOP.8	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	19	3	C	84	3	19
FACULTATIVE (OPTIONAL) subjects:																							
1	Business Start-up / Entrepreneurship	BTE.01.S.DFA.7	1	2	-	-	42	56	-	3	C	-	-	-	-	-	-	-	-	-	56	3	0
2	Entrepreneurship in Animal Husbandry / Entrepreneurial Design	BTE.02.S.DFA.8	-	-	-	-	-	-	-	-	-	1	2	-	-	42	56	-	3	C	56	3	0
3	Driving motor vehicles 1 (optional)	BTE.03.C.DFA.7	1	-	2	-	42	56	-	2	C	-	-	-	-	-	-	-	-	-	56	2	0
4	Driving motor vehicles 2 (optional)	BTE.04.C.DFA.8	-	-	-	-	-	-	-	-	-	1	-	2	-	42	56	-	2	C	56	2	0
Legend: L - no. of lectures hours per week; S - no. of seminar hours per week; Lab - no. of practical work/laboratory hours per week; P - no. of project hours per week; Cv. hours - Conventional hours; CR - ECTS credits; I.S. Hours - Individual Study hours; E.F. - evaluation form: E - exam; C - colloquium; P - Project; Code: BE - Biotechnology (in English) / Subject order/ Formative category of the Subject: F - Fundamental; C - Complementary; D - Field-related; S - speciality / semester: 1 to 8.			Total activity hours / semester:	I.S. Hours / Cv. Hours	No. of weeks / semester	Teaching hours / week	Teaching hours / semester	I.S. Hours / semester	Total activity hours / semester:	I.S. Hours / Cv. Hours	No. of weeks / semester	Teaching hours / week	Teaching hours / semester	I.S. Hours / semester									
			750	0.821	14	24	336	414	750	0.571	14	24	336	288									

Approved by the DEAN,

Prof. Dipl.Eng. Ioan PETI, PhD.

Data: 08.07.2025