

**University of Life Sciences "King Mihai I" from Timișoara**  
**Faculty of Bioengineering of Animal Resources**  
 Postgraduate study: **MASTER'S DEGREE**  
 Field of study: **Biotechnology**  
 Study programme: **Reproductive Biotechnologies for Breeding Improvement**  
 Type of education and attendance: **in person, Full-Time**  
 Duration of the study programme: **2 years / 4 semesters / 3+1**

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

Date: ..... 20\_\_

**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		
<b>COMPULSORY subjects:</b>																									
1	Biotechnological control of reproductive function in animals I	BRAA.1.S.DOB.1	4	-	4	-	112	224	288	16	E	-	-	-	-	-	-	-	-	-	-	224	16	288	
2	Methods for predicting the penetic value of breeding animals	BRAA.2.S.DOB.1	2	-	1	-	42	91	133	7	E	-	-	-	-	-	-	-	-	-	-	91	7	133	
3	Biotechnological control of reproductive function in animals II	BRAA.3.S.DOB.2	-	-	-	-	-	-	-	-	-	1	-	2	-	42	77	108	6	E	77	6	108		
4	Embryo-associated biotechnologies	BRAA.4.A.DOB.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	112	169	9	E	112	9	169		
5	Biotechnologies for improving the genetic structure of animal populations	BRAA.5.S.DOB.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	112	169	9	E	112	9	169		
6	Laboratory methods in advanced biotechnologies	BRAA.6.A.DOB.2	-	-	-	-	-	-	-	-	-	1	-	2	-	42	77	108	6	C	77	6	108		
-	<b>ELECTIVE subjects I</b>	-	2	-	1	-	42	91	133	7	E	-	-	-	-	-	-	-	-	-	-	91	7	133	
<b>TOTAL</b>			8	0	6	0	196	406	554	30	3E	6	0	8	0	196	378	554	30	3E+1C	693	53	1108		
			<b>14</b>				<b>14</b>																		
<b>ELECTIVE subjects (choose 1 out of 2):</b>																									
7	Reproductive endocrinology in animals	BRAA.7.A.DOP.1	2	-	1	-	42	91	133	7	E	-	-	-	-	-	-	-	-	-	-	91	7	133	
8	Cell culture-based study methods	BRAA.8.A.DOP.1	2	-	1	-	42	91	133	7	E	-	-	-	-	-	-	-	-	-	-	91	7	133	
<b>FACULTATIVE (OPTIONAL) subjects:</b>																									
1	Biostatistics	BRAA.1.C.DFA.1	1	-	2	-	42	77	-	3	C	-	-	-	-	-	-	-	-	-	-	77	3	0	
2	Nanotechnology	BRAA.2.C.DFA.2	-	-	-	-	-	-	-	-	-	1	-	2	-	42	77	-	3	C	77	3	0		
3	Invertebrate biology and systematic	BRAA.3.C.DFA.2	-	-	-	-	-	-	-	-	-	2	-	2	-	56	84	-	4	C	84	4	0		
Legend: L - no. of lecture 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; Specialization Code: SB / Subject order/Formative category of the Subject: A - Advanced (in deep); S - specialty; C - Complementary/semester: 1-4.			Total activity hours / semester:	Total activity hours / semester:	No. of weeks / semester	Teaching hours / week	Teaching hours / semester	I.S. Hours / semester				Total activity hours / semester:	Total activity hours / semester:	No. of weeks / semester	Teaching hours / week	Teaching hours / semester	I.S. Hours / semester								
			750	1.365	14	14	196		554			750	1.466	14	14	196		554							

**Approved by the DEAN,**  
 Prof. Dipl.Eng. Ioan PET, PhD.  
 Data: 08/07/2025

University of Life Sciences "King Mihai I" from Timișoara

Faculty of Bioengineering of Animal Resources

Postgraduate study: **MASTER'S DEGREE**

Field of study: **Biotechnology**

Study programme: **Reproductive Biotechnologies for Breeding Improvement**

Type of education and attendance: **in person, Full-Time**

Duration of the study programme: **2 years / 4 semesters / 3+1**

Approved by the **RECTOR,**

Prof. Dipl. Eng. Cosmin Alin POPESCU, PhD.

Date: ..... 20\_\_

**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						
<b>COMPULSORY subjects:</b>																													
1	Applied animal, microbial, and plant biotechnologies	BRAA.1.S.DOB.3	2	-	2	-	56	112	144	8	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112	8	144	
2	Soil-plant-animal interaction	BRAA.2.S.DOB.3	1	-	1	-	28	56	97	5	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	5	97	
3	Economics of rural areas	BRAA.3.S.DOB.3	2	1	-	-	42	91	133	7	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	7	133	
4	Biotechnics for digestive function control	BRAA.4.S.DOB.3	2	-	2	-	56	112	144	8	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112	8	144	
5	Ethics and academic integrity	BRAA.5.C.DOB.3	1	-	-	-	14	35	36	2	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	2	36	
6	Practical training	BRAA.6.S.DOB.4	-	-	-	-	-	-	-	-	-	-	-	-	-	15	210	315	415	25	C	-	-	-	-	315	25	415	
7	Dissertation writing	BRAA.7.S.DOB.4	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	65	5	C	-	-	-	-	0	5	65	
<b>TOTAL</b>			8	1	5	0	196	406	554	30	4E+1C	0	0	0	15	210	315	480	30	2C	721	60	1034	25.8					
-	<b>DISSERTATION DEFENSE</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	E	-	10	-	-	-	-	-	-	
Legend: L - no. of lecture 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; Specialization Code: BRAA / Subject order/Formative category of the Subject: A - Advanced (in deep); S - specialty; C - Complementary/semester: 1-4.			Total activity hours / semester:	Total activity hours / semester:	No. of weeks / semester:	Teaching hours / week	Teaching hours / semester	I.S. Hours / semester	Total activity hours / semester:	Total activity hours / semester:	No. of weeks / semester:	Teaching hours / week	Teaching hours / semester	I.S. Hours / semester															
			750	1.365	14	14	196		554			750	1.524	14	15	210		480											

Approved by the **DEAN,**

Prof. Dipl.Eng. Ioan PEȚ, PhD.

Date: 08/07/2025