

STUDY PROGRAMME CURRICULUM BIOTECHNOLOGY

2024/2025

Name of study programme	Biotechnology
Programme characteristics	
Type	academic
Cycle	bachelor
University of Ljubljana members	• Biotechnical Faculty, Jamnikarjeva ulica 101, 1000 Ljubljana, Slovenija

Year 1, obvezni

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0628576	Chemistry	Iztok Prislan	60	5	45	0	0	115	225	9	1st semester	no
2.	0628577	Mathematical Methods	Petar Pavešić	45	0	30	0	0	75	150	6	1st semester	no
3.	0628578	Introduction to Biotechnology	Hrvoje Petković	45	5	5	0	0	20	75	3	2nd semester	no
4.	0628579	Genetics 1	Jernej Jakše	45	15	30	0	0	85	175	7	2nd semester	no
5.	0628580	Biochemistry	Kristina Sepčić, Nataša Poklar Ulrih	60	0	50	0	0	115	225	9	2nd semester	no
6.	0628581	Practical Course in General and Molecular Microbiology	Ines Mandić Mulec	30	5	45		0	70	150	6	2nd semester	no
7.	0628582	Selected Topics in Physics	Natan Osterman	30	10	20	0	0	65	125	5	2nd semester	no
8.	0026049	Physical Education	Gorazd Janko, Milan Pavič	0	0	0	0		0	0	0		no
9.	0628584	Statistical Methods	Damijana Kastelec	30	0	30	0	0	90	150	6	1st semester	no

10.	0628585	Biology	Damjana Drobne, Jasna Dolenc Koce, Nada Žnidaršič	60	0	50	0	0	115	225	9	1st semester	no
Total				405	40	305	0	0	750	1500	60		

Year 2, obvezni

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0628586	Biosafety and Regulation in Biotechnology	Zlata Luthar	30	0	10	0	0	35	75	3	1st semester	no
2.	0628587	Genetics 2	Peter Dovč	45	15	30	0	0	85	175	7	1st semester	no
3.	0628588	Physiology	Gregor Belušič, Ines Mandić Mulec, Marjana Regvar	75	0	75	0	0	125	275	11	1st semester	no
4.	0628589	Biotechnology Technicum	Aleš Podgornik, Hrvoje Petković	45	0	65	0	0	115	225	9	1st semester	no
5.	0628590	Basics of Bioinformatics	Jernej Jakše	25	0	12	0	0	38	75	3	2nd semester	no
6.	0628591	Plant Tissue Culture	Jana Murovec	25	10	40	0	0	75	150	6	2nd semester	no
7.	0628592	Animal Tissue Culture	Mojca Narat	30	5	40	0	0	75	150	6	2nd semester	no
8.	0628593	Immunology	Mojca Narat	35	5	20	0	0	90	150	6	2nd semester	no
9.	0628594	Elective subject		0	0	0	0	110	115	225	9	All-year	no
Total				310	35	292	0	110	753	1500	60		

Year 3, obvezni

			Contact hours		
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	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective
1.	0628595	Plant Biotechnology	Nataša Štajner, Zlata Luthar	45	20	75	0	0	135	275	11	All-year	no
2.	0628596	Animal Biotechnology	Peter Dovč	45	10	65	0	0	130	250	10	1st semester	no
3.	0628597	Biotechnology of Higher Fungi	Miha Humar	30	0	30	0	0	65	125	5	1st semester	no
4.	0628598	Bioethics	Gregor Tomc	25	0	15	0	0	35	75	3	1st semester	no
5.	0628599	Introduction to Economics	Luka Juvančič	25	0	15	0	0	35	75	3	2nd semester	no
6.	0628600	Quality Assurance	Bojan Doljak, Hrvoje Petković	25	0	15	0	0	35	75	3	1st semester	no
7.	0628601	Biotechnology of Microorganisms	Hrvoje Petković, Polona Jamnik	60	20	70	0	0	150	300	12	2nd semester	no
8.	0628602	B. Sc. Thesis		0	15	0	0	0	85	100	4	2nd semester	no
9.	0628594	Elective subject		0	0	0	0	110	115	225	9	All-year	no
		Total		255	65	285	0	110	785	1500	60		

Izbirni predmeti

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective
1.	0628604	Bioterrorism	Martin Batič	20	15	5	0	0	40	80	3	1st semester, 2nd semester	yes
2.	0628605	Laboratory Animal Science	Tatjana Pirman	20	0	20	0	0	40	80	3	1st semester, 2nd semester	yes
3.	0628606	Applied Enzymatics	Tomaž Accetto	20	5	18	0	0	47	90	3	1st semester, 2nd semester	yes

4.	0628607	Introduction to Clinical Chemistry	Barbara Ostanek, Janja Marc	55	5	15	0	0	75	150	6	1st semester, 2nd semester	yes
5.	0628608	Food biotechnology	Polona Jamnik	15	5	20	0	0	35	75	3	1st semester, 2nd semester	yes
6.	0628609	Biometry	Milena Kovač	20	0	25	0	30	75	150	6	1st semester, 2nd semester	yes
7.	0628610	Effective study methods	Bojana Boh	15	0	25	0	0	40	80	3	1st semester, 2nd semester	yes
8.	0628611	Environmental monitoring	Maša Vodovnik	30	15	30	0	0	75	150	6	1st semester, 2nd semester	yes
9.	0628612	Technology in animal production	Peter Dovč	20	0	20	0	0	40	80	3	1st semester, 2nd semester	yes
10.	0628613	Production technologies of agricultural plants	Maša Vodovnik, Nina Kacjan Maršič	20	0	20	0	0	40	80	3	1st semester, 2nd semester	yes
11.	0628614	Individual Research Project	Polona Jamnik					70	5	75	3	1st semester, 2nd semester	no
Total				235	45	198	0	100	512	1090	42		

Year 3, Izbirni predmeti

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0643337	Research and project work planning	Damjana Drobne	25		15			35	75	3	1st semester	yes
Total				25	0	15	0	0	35	75	3		