

Programme curriculum
Programme, level of studies BIOTECHNOLOGY (second degree studies) MSc course
Cycle from academic year 2022/2023

Predicted number of students starting the cycle 8

Year I Semester I

COMPULSORY COURSES								
No.	Course name	Type of class*	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	The Bible – its nature and role in culture	lecture	30	Exam	1	30	2	According to the resolution of the Senate of the Catholic University of Lublin
2.	Bioinformatics	lecture	15	Exam	1	15	3	K_W04, K_U01, K_U04, K_K01
		class	15	Graded Pass	1	15		
3.	Plant biotechnology	lecture	15	Exam	1	15	5	K_W01, K_W02, K_W07, K_U01, K_U02, K_U07, K_U09, K_U11, K_U12, K_U14, K_U15, K_U16, K_K01, K_K02, K_K03, K_K04, K_K05
		class	26	Graded Pass	1	26		
		study visit	4	Pass	1	4		
4.	GMO - profits and risks	lecture	15	Exam	1	15	4	K_W02, K_W06, K_W07, K_U02, K_U03, K_U12, K_U15, K_U16, K_U17, K_K01, K_K02, K_K03, K_K04, K_K06
		class	15	Graded Pass	1	15		
5.	Experimental work methodology	lecture	10	Graded Pass	1	10	2	K_W04, K_W05, K_W07, K_U04, K_U05, K_U15, K_U18, K_U17, K_K04
		class	15	Graded Pass	1	15		
6.	Quality management systems and procedures for protection of intellectual property	lecture	30	Exam	1	30	6	K_W07, K_W08, K_W09, K_U02, K_U03, K_U08, K_U10, K_U16, K_K04
		class	30	Graded Pass	1	30		
7.	Bioenergy technologies	lecture	15	Exam	1	15	5	K_W01, K_W02, K_W03, K_W05, K_W07, K_U01, K_U07, K_U11, K_U12, K_U15, K_U16, K_K01, K_K03
		class	26	Graded Pass	1	26		
		study visit	4	Pass	1	4		
ELECTIVE COURSES Seminar courses (students choose one seminar and corresponding lab diploma)								
No.	Course name	Type of class*	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	Seminar	seminar	30	Pass	1	30	2	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05
2.	Lab diploma	lab diploma	30	Pass	3	90	2	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05

The student undergoes training: Health and safety procedures training

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	325
ECTS POINTS PER SEMESTER PER STUDENT:	31

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Year I Semester II

COMPULSORY COURSES								
No.	Course name	Type of class*	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	Biotechnology of sewage and waste materials	lecture	15	Exam	1	15	6	K_W01, K_W02, K_W03, K_W05, K_W07, K_U01, K_U11, K_U12, K_U14, K_U16, K_K01, K_K03
		class	42	Graded Pass	1	42		
		study visit	3	Pass	1	3		
2.	Experimental work methodology	lecture	10	Exam	1	10	3	K_W04, K_W05, K_W07, K_U04, K_U05, K_U15, K_U18, K_U17, K_K04
		class	15	Graded Pass	1	15		
3.	Inorganic and composite materials in biotechnology	lecture	15	Exam	1	15	4	K_W05, K_U02, K_U11, K_K02
		class	15	Graded Pass	1	15		
4.	Specialise foreign language	class	60	Graded Pass	1	60	4	K_W01, K_U02, K_U06, K_U16
5.	Selected aspects of metabolism	lecture	15	Exam	1	15	4	K_W01, K_W02, K_W07, K_U01, K_U09, K_U11, K_U14, K_U15, K_U16, K_K01, K_K02, K_K03, K_K05
		class	15	Graded Pass	1	15		
ELECTIVE COURSES Monographic lectures (one or two to choose from – for 2 ECTS credits)								
No.	Course name	Type of class*	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	Monographic lectures	lecture	30	Graded Pass	1	30	2	K_W01, K_W02, K_U02, K_U05, K_U16, K_U17
ELECTIVE COURSES (students choose one a subject – for 2 ECTS credits)								
No.	Course name	Type of class*	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	General university classes in a foreign language	tutorial	30	Graded Pass	1	30	2	According to the resolution of the Senate of the Catholic University of Lublin

ELECTIVE COURSES Seminar courses (students choose one seminar and corresponding lab diploma)								
No.	Course name	Type of class*	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	Seminar	seminar	30	Pass	1	30	2	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05
2.	Lab diploma	lab diploma	30	Pass	1	30	1	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	325
ECTS POINTS PER SEMESTER PER STUDENT:	30

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Year II Semester III

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	Molecular cytogenetics	lecture	15	Exam	1	15	4	K_W01, K_W05, K_W07, K_U01, K_U14, K_U15, K_U16, K_K03
		class	15	Graded Pass	3	45		
2.	Catholic social science and social education of John Paul II	lecture	30	Exam	1	30	2	According to the resolution of the Senate of the Catholic University of Lublin
3.	Thermoanalytical and spectroscopic methods in biomaterials research	lecture	15	Graded Pass	1	15	4	K_W05, K_W07, K_U01, K_U04, K_U14, K_U15, K_U16, K_K01, K_K03
		class	15	Graded Pass	1	15		
MAJOR SUBJECTS								
(A student has to choose 4 subjects out of 8- for 15 ECTS credits)								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
4.	Major subjects	lecture/class	120			0	15	Outcomes in accordance with Exhibit 9.
ELECTIVE COURSES Monographic lectures (one or two to choose from – for 1 ECTS credits)								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
5.	Monographic lecture	lecture	15			0	1	Outcomes in accordance with Exhibit 9.
ELECTIVE COURSES Seminar courses (students choose one seminar and corresponding lab diploma)								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes

1.	Seminar	seminar	30	Pass	1	30	2	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05
2.	Lab diploma	lab diploma	30	Pass	1	30	2	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	285
ECTS POINTS PER SEMESTER PER STUDENT:	30

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Year II Semester IV

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	Economic aspects of biotechnology	lecture	10	Exam	1	10	1	K_W07, K_W08, K_W10, K_W11, K_U13, K_K04, K_K06
MAJOR SUBJECTS								
(A student has one or two to choose from – for 5 ECTS credits)								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
2.	Major subjects	lecture/class	45			45	5	Outcomes in accordance with Exhibit 9.
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	Seminar	seminar	30	Pass	1	30	2	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05
2.	Lab diploma	lab diploma	15	Pass	1	15	1	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05
3.	Master's thesis and preparation for diploma examination	final thesis	0	Pass	1	0	20	K_W01, K_W02, K_W07, K_U01, K_U02, K_U03, K_U04, K_U05, K_U06, K_U07, K_U10, K_U11, K_U14, K_U15, K_U16, K_U17, K_U18, K_K01, K_K03, K_K05

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	115
ECTS POINTS PER SEMESTER PER STUDENT:	30

NUMBER OF TEACHING HOURS PER CYCLE PER STUDENT:	1050
ECTS POINTS PER CYCLE PER STUDENT:	120