

**Programme plan**  
**Programme, level of studies BIOTECHNOLOGY (1st degree studies) BS course**  
**Academic Year 2023/2024- Cycle from 2021/2022**

Predicted number of students starting the cycle 1

Year III Semester V

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Plant cell and tissue cultures	lecture	15	Exam	1	15	4	dr Aleksandra Seta – Koselska, dr Małgorzata Poniewozik
		class	30	Graded Pass	1	30		
2.	Industrial microbiology	lecture	30	Exam	1	30	6	dr Marta Klos
		class	45	Graded Pass	1	45		
SPECIALISATION COURSES - ELECTIVE (one to choose from)								
Specialisation: Experimental biotechnology								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
Specialisation: Experimental biotechnology								
1.	Analytical methods in biotechnology - extended course	lecture	30	Exam	1	30	5	Katedra Biologii i Biotechnologii Mikroorganizmów
		class	30	Graded Pass	1	30		
2.	Technologies and bioprocess engineering - basic course	lecture	15	Exam	1	15	5	Katedra Biologii i Biotechnologii Mikroorganizmów, mgr Kamila Górka
		class	30	Graded Pass	1	30		
3.	Experimental toxicology	lecture	15	Graded Pass	1	15	4	dr Radosław Mencfel, dr Tomasz Lenard
		class	30	Graded Pass	1	30		
ELECTIVE COURSES Seminars (one to choose from)								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Methods of the xenobiotic cytotoxicity analysis	seminar	30	Pass	1	30	2	dr hab. Anna Sierosławska, prof. KUL
ELECTIVE COURSES Practical placement - 4 weeks								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Practical placement	practical placement	130	Pass	1	130	4	dr hab. Anna Sierosławska, prof. KUL

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	300
ECTS POINTS PER SEMESTER PER STUDENT:	30

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**Programme, level of studies BIOTECHNOLOGY (1st degree studies) BS course**  
**Academic Year 2023/2024- Cycle from 2021/2022**

Predicted number of students starting the cycle 1

Year III Semester VI

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Animal cell and tissue cultures	lecture	15	Exam	1	15	4	dr hab. Anna Sierosławska, prof. KUL
		class	30			30		
2.	Economics of production	class	15	Graded Pass	1	15	1	dr Katarzyna Jabłońska – Karczmarczyk
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	Course instructor
1.	Food toxicology	lecture	15	Graded Pass	1	15	2	dr Tomasz Lenard
2.	Virology and epidemiology	lecture	15	Graded Pass	1	15	1	dr hab. inż. Andrea Baier
SPECIALISATION COURSES - ELECTIVE (one to choose from)								
Specialisation: Experimental biotechnology								
1.	Immunology with immunodiagnostics	lecture	15	Exam	1	15	5	dr hab. Anna Rymuszka, prof. KUL
		class	30			30		
2.	Bioprocess strategies	lecture	30	Exam	1	30	6	Katedra Biologii i Biotechnologii Mikroorganizmów
		class	30	Graded Pass	1	30		
ELECTIVE COURSES Seminars (one to choose from). Bachelor's thesis and preparation for diploma examination - student is required to prepare bachelor's								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	
1.	Methods of the xenobiotic cytotoxicity analysis	seminar	30	Pass	1	30	2	dr hab. Anna Rymuszka, prof. KUL
2.	Bachelor's thesis and preparation for diploma examination	final thesis	0	Pass	1	0	10	dr hab. Anna Rymuszka, prof. KUL, dr hab. Anna Sierosławska, prof. KUL

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	225
ECTS POINTS PER SEMESTER PER STUDENT:	30

NUMBER OF TEACHING HOURS PER CYCLE PER STUDENT:	2010
ECTS POINTS PER CYCLE PER STUDENT:	180