

Programme curriculum
Programme , level of studies BIOANALYTICAL TECHNOLOGIES (second degree studies - MSc)
Education cycle beginning in 2022/2023

Predicted number of students starting the cycle – 12

Year I Semester I

Studies implemented at the John Paul II Catholic University of Lublin (KUL)								
ELECTIVE COURSES - General education courses (two to choose from – for 4 ECTS credits)								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total teaching on year hours	ECTS Points	Reference to programme learning outcomes
1.	History of Philosophy	lecture	30	Exam	1	30	2	Zgodnie z Uchwałą Senatu KUL
2.	Logics	lecture	10	Exam	1	10	2	Zgodnie z Uchwałą Senatu KUL
		classes	15	Graded Pass	1	15		Zgodnie z Uchwałą Senatu KUL
4.	The Bible – its nature and role in culture	lecture	30	Exam	1	30	2	Zgodnie z Uchwałą Senatu KUL
5.	Catholic social science and social education of John Paul II (social sciences)	lecture	30	Exam	1	30	2	Zgodnie z Uchwałą Senatu KUL
COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total teaching hours	ECTS Points	Reference to programme learning outcomes
1.	OMICS technologies	lecture	15	Exam	1	15	6	K_W01, K_W02, K_W04, K_W07, K_U01, K_U04, K_U06, K_U12, K_U14, K_U15, K_K03, K_K05
		classes	45	Graded Pass	3	135		
2.	Advanced biotechnology	lecture	30	Exam	1	30	6	K_W02, K_W05, K_W06, K_W07, K_W08, K_U01, K_U09, K_U12, K_U14, K_K02, K_K03, K_K05
		classes	30	Graded Pass	3	90		
3.	Evaluation of bioactive compounds	lecture	15	Exam	1	15	6	K_W01, K_W02, K_W05, K_W07, K_U01, K_U07, K_U09, K_U11, K_U15, K_U18, K_U19, K_K03, K_K05
		classes	45	Graded Pass	3	135		
4.	Experimental work methodology and quality management systems	lecture	45	Exam	1	45	6	K_W03, K_W04, K_W05, K_W07, K_W08, K_U02, K_U04, K_U05, K_U08, K_U15, K_U16, K_U17, K_U18, K_U19, K_K04
		classes	30	Graded Pass	3	90		
ELECTIVE COURSES Seminar courses (students choose one seminar)								

No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total teaching hours	ECTS Points	Reference to programme learning outcomes
1.	Seminar	seminar	30	Pass	1	30	2	K_W01, K_W02, K_W05, K_W07, K_W09, 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_U19, K_K01, K_K02, K_K03, K_K04, K_K05

NUMBER OF HOURS FOR A STUDENT IN THE SEMESTER:	345/340*
NUMBER ECTS FOR A STUDENT IN THE SEMESTER:	30

* w przypadku wyboru przedmiotu : Logika

Year I Semester II

Studies implemented at the International University of Sarajevo (IUS)								
COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total teaching hours	ECTS Points	Reference to programme learning outcomes
1.	Scientific writing (gives language competence- B2+)	lecture	45	Graded Pass	1	45	4	K_W01, K_W02, K_W10, K_U02, K_U03, K_U05, K_U06, K_U07, K_U08, K_U16
		tutorial	15	Pass	1	15		
2.	Entrepreneurship and project management	lecture	45	Exam	1	45	6	K_W01, K_W03, K_W04, K_W09, K_W10, K_W11, K_U02, K_U03, K_U10, K_U13, K_K04, K_K06
		classes	30	Graded Pass	3	90		
3.	Biostatistics	lecture	30	Exam	1	30	6	K_W04, K_W05, K_U02, K_U03, K_U04, K_U14, K_U16, K_U18, K_K01, K_K04
		classes	30	Pass	3	90		
4.	Programming and data acquisition	lecture	30	Exam	1	30	6	K_W04, K_W05, K_W08, K_U01, K_U03, K_U04, K_U07, K_U14, K_U17, K_K01, K_K03, K_K04
		classes	30	Pass	3	90		
5.	Molecular diagnostics	lecture	30	Exam	1	30	6	K_W04, K_W05, K_W08, K_U01, K_U08, K_U10, K_U11, K_U17, K_K02, K_K03, K_K04
		classes	30	Pass	3	90		
ELECTIVE COURSES Seminar courses (students choose one seminar)								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total teaching on year hours	ECTS Points	Reference to programme learning outcomes

1.	Seminar	seminar	30	Pass	1	30	2	K_W01, K_W02, K_W05, K_W07, K_W09, 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_U19, K_K01, K_K02, K_K03, K_K04, K_K05
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NUMBER OF HOURS FOR A STUDENT IN THE SEMESTER:	345
NUMBER ECTS FOR A STUDENT IN THE SEMESTER:	30

Year II Semester III

Studies realized at KUL								
ELECTIVE COURSES (four to choose from – for 24 ECTS credits)								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total teaching on year hours	ECTS Points	Reference to programme learning outcomes
1.	Bioremediation	lecture	30	Exam	1	30	6	K_W01, K_W02, K_W03, K_W05, K_W06, K_W07, K_U01, K_U07, K_U12, K_U14, K_U15, K_U18, K_K01, K_K03, K_K05
		classes	30	Graded Pass	3	90		
2.	Application of nanomaterials	lecture	30	Exam	1	30	6	K_W01, K_W02, K_W07, K_U01, K_U04, K_U12, K_U14, K_K02, K_K03, K_K05
		classes	30	Graded Pass	3	90		
3.	Phytochemical analysis	lecture	30	Exam	1	30	6	K_W01, K_W02, K_W05, K_U01, K_U04, K_U05, K_U07, K_K01, K_K05
		classes	30	Graded Pass	3	90		
4.	Microbial diversity in environment	tutorial	30	Exam	1	30	6	K_W01, K_W02, K_U01, K_U02, K_U03, K_U11, K_U16, K_K01, K_K04
		classes	30	Graded Pass	3	90		
5.	Cancer chemoprevention	lecture	30	Exam	1	30	6	K_W01, K_W02, K_U02, K_U05, K_U16, K_U17, K_K04
		classes	30	Graded Pass	3	90		
6.	Techniques in protein biochemistry	lecture	30	Exam	1	30	6	K_W01, K_W02, K_W05, K_W06, K_W07, K_U01, K_U06, K_U12, K_U14, K_U15, K_K02, K_K03, K_K05
		classes	30	Graded Pass	3	90		
7.	Analysis of environmental samples	lecture	30	Exam	1	30	6	K_W01, K_W02, K_W05, K_W07, K_U01, K_U04, K_U06, K_U14, K_U15, K_U17, K_U18, K_U19, K_K05
		classes	30	Graded Pass	3	90		

8	Bioanalytical methods for water monitoring in EU legislation	lecture	15	Exam	1	15	6	K_W01, K_W02, K_W04, K_W05, K_U01, K_U03, K_U07, K_U14, K_U15, K_U17, K_U18, K_K01, K_K03, K_K04, K_K05
		classes	30	Graded Pass	3	90		
		field work	15	Pass	1	15		
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 teaching on year hours	ECTS Points	Reference to programme learning outcomes
1.	Seminar	seminar	30	Pass	1	30	2	K_W01, K_W02, K_W05, K_W07, K_W09, 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_U19, K_K01, K_K02, K_K03, K_K04, K_K05
		lab diploma	30	Pass	1	30		

NUMBER OF HOURS FOR A STUDENT IN THE SEMESTER:	300
NUMBER ECTS FOR A STUDENT IN THE SEMESTER:	26

Year II Semester IV

Practical placement								
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.	Practical placement	practical placement	360	Pass	1	360	12	K_W07, K_U01, K_U05, K_U07, K_U14, K_U16, K_K03, K_K04, K_K05
ELECTIVE COURSES Seminar courses (students choose one seminar). Student is required to prepare master's thesis.								
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_W05, K_W07, K_W09, 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_U19, K_K01, K_K02, K_K03, K_K04, K_K05
3.	Master's thesis and preparation for diploma examination	final thesis	0	Pass	1	0	20	

NUMBER OF HOURS FOR A STUDENT IN THE SEMESTER:	30+360 (practical placement)
NUMBER ECTS FOR A STUDENT IN THE SEMESTER:	34

NUMBER OF HOURS FOR A STUDENT IN THE COURSE:	1020+360 (practical placement)*1015+360 (practical placement)
NUMBER ECTS FOR A STUDENT IN THE COURSE:	120

* w przypadku wyboru przedmiotu : Logika