Załącznik nr 1.5 do Uchwały Senatu Nr XXV-24.4/23 z dnia 29 marca 2023 r.

Plan studiów obowiązujący od roku akademickiego 2023/2024

KIERUNEK: **BIOLOGIA**
Specjalność: **Medical biology**
Poziom studiów: **I stopień**
Profil studiów: **ogólnoakademicki**
Forma studiów: **stacjonarne**

Lp.	Name of the module (course)	ECTS	Hours (total)						Year I														Year II														Years III																			
			Sum	Type of classes					1							2							3							4							5							6						
				WY	CA	LB	KW	SM	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS
	Obligatory courses - A	**122**	**1615**						**115**	**0**	**200**	**80**	**0**	**0**	**30**	**100**	**60**	**140**	**60**	**0**	**0**	**26**	**120**	**0**	**180**	**30**	**0**	**0**	**26**	**90**	**0**	**90**	**45**	**0**	**0**	**18**	**60**	**15**	**45**	**115**	**0**	**0**	**14**	**30**	**0**	**30**	**10**	**0**	**0**	**8**
	1. Main courses																																																						
1	Modern trends in biology BN	2	20	20					20					z	2																																							
2	Basics of zoology BN	5	60	15		45			15		45			E	5																																							
3	Basics of botany BN	5	60	20		40			20		40			E	5																																							
4	Physics with elements of biophysics BN	6	60	20		40			20		40			E	6																																							
5	General chemistry with elements of analytical and physical chemistry	6	70	25		45			25		45			E	6																																							
6	Calculation in biology	1	20				20					20		z	1																																							
7	Utility software package	2	30			30					30			z	2																																							
8	Intelectual property protection NHS	1	15	15					15						1																																							
9	Cell biology - an extensive course BN	8	90	30		60										30		60				8																																
10	The elements of organic chemistry for biology students	5	60	30		30										30		30			E	5																																
11	Basics of mycology BN	2	30	10		20										10		20			z	2																																
12	Human anatomy - an extensive course BN	5	60	30		30										30		30			z	5																																
13	Zoology field classes BN	2	30		30CT												30				z	2																																
14	Botany field classes BN	2	30		30CT												30				z	2																																
15	Biochemistry BN	8	90	30		60																	30		60			E	8																									
16	Microbiology BN	5	60	30		30																	30		30			E	5																									
17	Genetics with elements of human genetics BN	5	60	30		30																	30		30			E	5																									
18	Human physiology BN	6	90	30		60																	30		60			E	6																									
19	Histology with elements of embriology BN	2	30	15		15																								15		15			z	2																		
20	Molecular biology with elements of molecular diagnostics BN	5	60	30		30																								30		30			E	5																		
21	Ecology BN	5	60	15		45																								15		45			E	5																		
22	Mechanisms of evolution	4	45	30			15																							30			15		E	4																		
23	Human immunology BN	5	60	30		30																															30		30			E	5										
24	Environmental protection - an extensive course BN	4	60	30	15CT	15																															30	15	15			z	4										
25	Presentation of scientific results - training	1	15				15																																	15		z	1										
26	Plant physiology BN	5	60	30		30																																						30		30			E	5
27	Basics of entrepreneurship NHS	1	10				10																																								10		z	1
	2. Other courses																																																					
28	Physical education	0	60				60					30		z	0				30		z	0																																
29	Foreign language	8	120				120					30		z	2				30		z	2				30		z	2				30		E	2																		
30	Specialization practical training	4	100				100																																	100		z	4										
31	Diploma thesis + final exam	2	0																																																		2
	Elective courses/modules - B	**58**	**800**						**0**	**0**	**0**	**0**	**0**	**0**	**0**	**15**	**0**	**15**	**0**	**0**	**0**	**4**	**15**	**0**	**45**	**0**	**0**	**0**	**4**	**75**	**5**	**55**	**0**	**0**	**0**	**12**	**80**	**0**	**120**	**0**	**0**	**0**	**16**	**135**	**0**	**60**	**60**	**45**	**0**	**22**
	1. Specialization courses																																																					
32	Parasitology	2	30	15		15										15		15			z	2																																
33	Premedical firs aid	2	30			30																			30			z	2																									
34	Radology	1	15	15																			15					z	1																									
35	Basics of *in vitro* animal cell culture BN	1	15			15																			15			z	1																									
36	Elements of pathopysiology	1	15	15																										15					z	1																		
37	Pharmacological botany BN	5	75	30	5CT	40																								30	5	40			z	5																		
38	Forensic entomology BN	2	30	15		15																								15		15			z	2																		
39	Biochemistry of nutrition BN	1	15	15																										15					z	1																		
40	Physical basis of instrumental diagnostics and physiotherapy	2	30	20		10																															20		10			z	2										
41	Applied biology in medicine	3	40			40																																	40			z	3										
42	Herbal medicine with elements of phytotherapy BN	6	70	30		40																															30		40			E	6										
43	Genetic engineering BN	4	45	15		30																															15		30			z	4										
44	Human evolution	2	30	15			15																																					15			15		z	2
45	Medical aspects of toxiclogy	5	60	30		30																																						30		30			E	5
46	Basics of pharmacology	3	45	15			30																																					15			30		z	3
47	Human ecology BN	2	30	15			15																																					15			15		z	2
48	Basics of medical biotechnology BN	2	30	30																																								30					z	2
49	Biomaterial engineering in medicine BN	1	15	15																																								15					z	1
50	Biochemical methods in clinical analysis BN	4	45	15		30																																						15		30			z	4
51	Seminar	3	45					45																																								45	z	3
	2. Other elective courses																																																					

| | | |