University of Belgrade

Advanced Data Analytics Structure of study program



	Course code	Course title			_	Active teaching				Other	
No.				S	Туре	С	L	R	0	classes	ECTS
Ye	ar 1										
	19.ADA31	Electives 1 (3	out of 6)	1		12.00	0.00	7.00-	0.00-	0.00	30.00
		19.ADA01	Mathematical foundations of data analysis	1	T/M	4.00	0.00	9.00	2.00 0.00	0.00	10.00
		19.ADA02	Discrete mathematical structures	1	T/M	4.00	0.00	3.00	0.00	0.00	10.00
		19.ADA03	Analytics and optimization	1	T/M	4.00	0.00	3.00	0.00	0.00	10.00
		19.ADA04	Introduction to statistical inference	1	T/M	4.00	0.00	2.00	1.00	0.00	10.00
		19.ADA05	Models of statistical learning	1	R	4.00	0.00	2.00	1.00	0.00	10.00
		19.ADA06	Introduction to complex networks theory	1	R	4.00	0.00	3.00	0.00	0.00	10.00
							0.00	7.00-		0.00	
			Total classes per week and ECTS					9.00 .00	2.00		30.00
	Total classes per week and ECTS in semeste						21.00				
2	19.ADA32	Electives 2 (3	'	2		12.00	0.00	4.00-		0.00	30.00
	10.7157102	2,000,700 2 (0		-		12.00	0.00	9.00	5.00	0.00	
		19.ADA07	Artificial intelligence / Machine learning	2	R	4.00	0.00	2.00	1.00	0.00	10.00
		19.ADA08	Programming	2	Α	4.00	0.00	3.00	0.00	0.00	10.00
		19.ADA09	Databases	2	Α	4.00	0.00	0.00	3.00	0.00	10.00
		19.ADA10	Big Data analytics	2	Α	4.00	0.00	2.00	1.00	0.00	10.00
		19.ADA11	Data visualization	2	Α	4.00	0.00	3.00	0.00	0.00	10.00
		19.ADA12	Neural networks and deep learning	2	Α	4.00	0.00	3.00	0.00	0.00	10.00
		19.ADA13	Text mining	2	R	4.00	0.00	2.00	1.00	0.00	10.00
		19.ADA14	Social network analysis	2	R	4.00	0.00	3.00	0.00	0.00	10.00
		19.ADA15	Introduction to time series analysis	2	T/M	4.00	0.00	3.00	0.00	0.00	10.00
	Total classes per week in semester by					12.00	0.00		0.00- 5.00	0.00	
Total classes per week and ECTS in semester 21.00										30.00	
Total classes per week in semester						21.00					
Total classes per week in semester by class type in academic year 24.00 0.00 11.00 0.00-7.00							0.00				
	Total classes per week and ECTS in academic								60.00		
			Total classes per week in aca	adem	nic year			42.0	0		
Ye	ar 2				T	1	1		1	ı	
3	19.ADA33	Electives 3 (2	out of 7)	3		10.00	0.00	4.00- 6.00	0.00- 2.00	0.00	14.00
		19.ADA16	Data analysis in fundamental and clinical medicine	3	Α	5.00	0.00	2.00	1.00	0.00	7.00
		19.ADA17	Data analysis in biological sciences	3	Α	5.00	0.00	2.00	1.00	0.00	7.00
		19.ADA18	Big Data and social sciences	3	Α	5.00	0.00	2.00	1.00	0.00	7.00
		19.ADA19	Advanced data analysis in social sciences	3	Α	5.00	0.00	2.00	1.00	0.00	7.00
		19.ADA20	Analysis of international research datasets	3	Α	5.00	0.00	2.00	1.00	0.00	7.00
		19.ADA21	Big Data in space science and its analysis	3	Α	5.00	0.00	3.00	0.00	0.00	7.00
		19.ADA22	Practical analysis of noisy and uneven time series	3	Α	5.00	0.00	3.00	0.00	0.00	7.00
4	19.ADA41	Internship		3	Α	0.00	0.00	0.00	0.00	6.00	3.00
	19.ADA42	Qualification	<u> </u>	3	Α	0.00	0.00		0.00	0.00	3.00
6	19.ADA43	Master thesis		3	R	0.00	0.00		0.00 0.00 -	3.00	10.00
Total classes per week in semester by class type						10.00	0.00	10.00		9.00	
Total classes per week and ECTS in semester						20.00					30.00
Total classes per week in semester								29.0			
	Total classes per week in semester by class type in academic year						0.00	8.00- 10.00	0.00- 2.00	9.00	
	Total classes per week and ECTS in academic year						20.00				
Total classes per week in academic year								29.0	0		