

FACULTY OF Faculty of Automation and Computer Science
Domain Computer Science and Information Technology
Program Name Data Science (in English Language)
Study Level Master Research

CURRICULA Valid for the Academic Year 2026-2027

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COURSE CODE AND TITLE		Year: I										Method of Assessment			Nr. Of Hours/Discipline				ECTS/Sem		Discipline		
		SEM 1 14 weeks					SEM 2 14 weeks								Total	C	Apl	Indiv. St.	1	2	cat	type	
		C	S	L	P	Pr/Ce	C	S	L	P	Pr/Ce												
1.00	Big Data	2	1	0	0	0						Gr		100	28	14	58	4.0		DS	DOB		
2.00	Algorithms	1	0	1	1	0						Gr		100	14	28	58	4.0		DS	DOB		
3.00	Database Systems	2	0	1	0	0						Gr		100	28	14	58	4.0		DS	DOB		
4.00	Machine Learning 1	2	0	1	0	0						Gr		100	28	14	58	4.0		DS	DOB		
5.00	Mathematical Models for ML	1	1	0	0	0						Gr		100	14	14	72	4.0		DS	DOB		
6.00	Research Activity 1	0	0	0	0	14						A/R		250	0	196	54	10.0		DS	DOB		
7.10	Machine Learning 2						2	0	1	0	0	Gr		100	28	14	58	4.0		DF	DOP		
7.20	Architectures of Information Systems						2	0	1	0	0	Gr		100	28	14	58	4.0		DF	DOP		
7.30	Advanced Topics of Functional Programming						2	0	1	0	0	Gr		100	28	14	58	4.0		DF	DOP		
8.10	Data Analytics Pipeline						1	1	1	0	0	Gr		100	14	28	58	4.0		DF	DOP		
8.20	Time Series Analysis						1	1	1	0	0	Gr		100	14	28	58	4.0		DF	DOP		
9.00	Information Theory and Statistics						1	1	0	0	0	Gr		100	14	14	72	4.0		DS	DOB		
10.00	Data Warehouse and Business Intelligence						2	1	0	0	0	Gr		100	28	14	58	4.0		DS	DOB		
11.00	Image Processing and Computer Vision						2	0	1	0	0	Gr		100	28	14	58	4.0		DS	DOB		
12.00	Research Activity 2						0	0	0	0	14	A/R		250	0	196	54	10.0		DS	DOB		
TOTAL PER YEAR		8	2	3	1	14	8	3	3	0	14	sem1 sem2	4 5	1 0	1 1	1500	224	560	716	30.0	30.0		

201.00	Psychopedagogy of Adolescents, Youngs and Adults	2	1	0	0	0						Gr				125	28	14	83	5.0		DC	DFA
301.00	Volunteering 1	0	1	0	0	0							A/R			50	0	14	36	2.0		DC	DFA
202.00	Design and Management of Educational Programs						2	1	0	0	0	Gr				125	28	14	83	5.0		DC	DFA
203.10	Educational Communication						1	2	0	0	0	Gr				125	14	28	83	5.0		DC	DFA
203.20	Educational Research Methodology						1	2	0	0	0	Gr				125	14	28	83	5.0		DC	DFA
203.30	Modern Trends in Assessment Theory and Practice						1	2	0	0	0	Gr				125	14	28	83	5.0		DC	DFA
302.00	Volunteering 2						0	1	0	0	0		A/R			50	0	14	36	2.0		DC	DFA
TOTAL YEAR		2	2	0	0	0	3	4	0	0	0	sem1	1	0	1	475	70	84	321	7.0	12.0		
					4.0					7.0		sem2	2	0	1								

Rector,
Prof. dr. ing. Vasile Topa

Dean,
Prof. dr. ing. Vlad Muresan

Department Director,
Prof. dr. ing. Rodica Potolea