

Domain ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGIES ENGINEERING

Program Name MULTIMEDIA TECHNOLOGIES

Study Level RESEARCH MASTERS

CURRICULA

Valid for the Academic Year

2024-2025

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COURSE CODE AND TITLE	Year I					Methods of Assessment			Nr.of Hours/Discipline				ECTS/Sem		Discipline							
	SEM 1		14 weeks			SEM 2		14 weeks	E	C	V	Total	C	Apl	Indiv. St.	1	2	cat	type			
	C	S	L	P	Pr/Ce	C	S	L												P	Pr/Ce	
1.00 Advanced Systems for Multimedia Coding and Compression	2	0	1	0	0				Gr			100	28	14	58	4.0		DA	DI			
2.00 Speech Analysis, Synthesis and Recognition	2	0	1	0	0				Gr			100	28	14	58	4.0		DA	DI			
3.00 Advanced Software Elements in Telecommunications	2	0	1	0	0				Gr			100	28	14	58	4.0		DA	DI			
4.00 Relational Databases	2	0	1	0	0				Gr			100	28	14	58	4.0		DA	DI			
5.00 Ethics and Academic Integrity	1	0	0	0	0				Gr		50	14	0	36	2.0		DC	DI				
6.00 Research Project 1	0	0	0	2	0				Gr		100	0	28	72	4.0		DS	DI				
7.00 Research / Practical Activity 1	0	0	0	0	13				Gr		200	0	182	18	8.0		DS	DI				
8.00 Parallel Computer Architectures						2	0	1	0	0	Gr						4.0	DA	DI			
9.00 Machine Learning for Image Analysis						2	0	1	0	0	Gr						4.0	DA	DI			
10.00 Speech Compression Techniques						2	0	1	0	0	Gr						4.0	DA	DI			
11.10 Advanced Techniques for Data Streams Coding and Control						1	0	2	0	0	Gr						4.0	DS	DO			
11.20 Fundamentals of High Bit-Rate Data Transmissions						1	0	2	0	0	Gr						4.0	DS	DO			
11.30 3G, 4 G and 5G Mobile Communications						1	0	2	0	0	Gr						4.0	DS	DO			
11.40 Data Mining and Analytics using Python						1	0	2	0	0	Gr						4.0	DS	DO			
11.50 Quality of Service in Next Generation Networks						1	0	2	0	0	Gr						4.0	DS	DO			
12.00 Research Project 2						0	0	0	2	0	Gr						4.0	DS	DI			
13.00 Research / Practical Activity 2						0	0	0	0	14	Gr						10.0	DS	DI			
TOTAL AN	9	0	4	2	13	7	0	5	2	14	sem1	4	1	2	1500	224	560	716	30.0	30.0		
											sem2	4	1	1								

201.00 Psychopedagogy of Adolescents, Youngs and Adults	2	1	0	0	0				Gr			125	28	14	83	5.0		DF	DFac
301.00 Volunteering 1	0	1	0	0	0				A/R			50	0	14	36	2.0		DC	DFac
202.00 Design and Management of Educational Programs						2	1	0	0	0	Gr						5.0	DF	DFac
203.10 Educational Communication						1	2	0	0	0	Gr						5.0	DS	DFac
203.20 Educational Research Methodology						1	2	0	0	0	Gr						5.0	DS	DFac

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Department Director,
 Prof. dr. ing. Virgil Mircea Dobrota

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203.30 Modern Orientations in Evaluation Theory and Practice		1	2	0	0	0	Gr	125	14	28	83	5.0	DS	DFac			
302.00 Volunteering 2		0	1	0	0	0	A/R	50	0	14	36	2.0	DC	DFac			
TOTAL AN	2	2	0	0	0	3	4	0	0	0	sem1 1 0 1	475	70	84	321	7.0	12.0
			4.00								sem2 2 0 1						

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	SEM 1		14 weeks			SEM 2		14 weeks			E	C	V	Total	C	Apl	Indiv. St.	1	2	cat	type
	C	S	L	P	Pr/Ce	C	S	L	P	Pr/Ce											
14.00 Biometric Security Systems	2	0	1	0	0						Gr			100	28	14	58	4.0		DA	DI
15.00 Data Engineering in Cloud	1	0	2	0	0						Gr			100	14	28	58	4.0		DA	DI
16.10 Security in IT Systems	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
16.20 Security of Telecommunications Networks	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
16.30 Unified Communications in the Cloud	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
16.40 Wireless Systems	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
16.50 Traffic Prediction in Telecom Networks Using AI	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
17.10 Communication Technologies for Intelligent Transportation Systems	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
17.20 Deep Learning in Telecommunications	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
17.30 Radio Networks Design	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
17.40 Information Secrecy Techniques	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
17.50 Cognitive Communications	2	0	1	0	0						Gr			100	28	14	58	4.0		DS	DO
18.00 Research Project 3	0	0	0	2	0						Gr			100	0	28	72	4.0		DS	DI
19.00 Research / Practical Activity 3	0	0	0	0	14						Gr			250	0	196	54	10.0		DS	DI
20.00 Research / Practical Activity 4						0	0	0	0	14	Gr			250	0	196	54	10.0		DS	DI
21.00 Dissertation Project Work						0	0	0	9	0	Gr			250	0	126	124	10.0		DS	DI
22.00 Field Specific Research for the Master Thesis						0	0	0	0	5	Gr			250	0	70	180	10.0		DS	DI
23.00 Presentation of Dissertation						0	0	0	0	0	Gr			0	0	0	0	10.0		DS	DI
TOTAL AN	7	0	5	2	14	0	0	0	9	14	sem1 4 1 1 sem2 0 3 0		1500	98	686	716	30.0	30.0			

100.00 Introduction to Quantum Information	2	0	2	0	0						Gr			75	28	28	19	3.0		DA	DFac
204.00 Didactics of the Field and Development in Didactics Specialties (High School and Post High School Education)	2	1	0	0	0						Gr			125	28	14	83	5.0		DS	DFac
205.10 School Organization Management	1	2	0	0	0						Gr			125	14	28	83	5.0		DS	DFac

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205.20 Metacognitive Education	1	2	0	0	0			Gr	125	14	28	83	5.0	DS	DFac
205.30 Intercultural Education	1	2	0	0	0			Gr	125	14	28	83	5.0	DS	DFac
303.00 Volunteering 3	0	1	0	0	0			A/R	50	0	14	36	2.0	DC	DFac
206.00 Teaching Practice (in Secondary School and Tertiary Education)						0	0	0	0	3			5.0	DS	DFac
207.00 Graduation exam - Level II						0	0	0	0	0			5.0	DS	DFac
304.00 Volunteering 4						0	1	0	0	0			2.0	DC	DFac
TOTAL AN	5	4	2	0	0	0	1	0	0	3	sem1	2	1	1	
			11.00					1.00			sem2	0	1	1	
											550	70	140	340	15.0
															7.0
															+ 5

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	C	S	L	P	Pr/Ce	Credite	Examene	Colocvii si verificari	Total evaluari	Nr.examene/tot.evaluari
Anul I	224	0	126	56	378	60	8	5	13	62 %
Anul II	98	0	70	154	462	60	4	5	9	44 %
TOTAL	322	0	196	210	840	120	12	10	22	55 %

NUMAR ORE TOTAL 1568

TOTAL ORE DIDACTICE 798

TOTAL ORE DISCIPLINE DE APROFUNDARE 378

TOTAL ORE DISCIPLINE DE SINTEZA 1176

TOTAL ORE DISCIPLINE COMPLEMENTARE - TIP DC 14 1.65 % din tot.activ.didactice oblig. max 20%

NUMAR DISCIPLINE COMPLEMENTARE - TIP DC 1

TOTAL ORE CURS 322

TOTAL ORE ACTIVITATI APLICATIVE 406

RAPORT CURS / ACTIV. PRACTICE 0.79 0.80-1.20

TOTAL ORE ACTIV.APLIC.FARA DISC.PARTIAL ASIST. 280

RAPORTAT LA ACTIV.APLIC.FARA DISC.PARTIAL ASIST. 1.15

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