

Domain ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGIES ENGINEERING

Program Name TELECOMMUNICATIONS

Study Level RESEARCH MASTERS

CURRICULA

Valid for the Academic Year

2024-2025

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
	C	S	L	P	Pr/Ce	C								
1.00 Security of Telecommunications Networks	1	0	2	0	0	Gr	100	14	28	58	4.0		DA	DI
2.00 Unified Communications in the Cloud	1	0	2	0	0	Gr	100	14	28	58	4.0		DA	DI
3.00 Wireless Systems	2	0	1	0	0	Gr	100	28	14	58	4.0		DA	DI
4.00 Antennas and Radio-Frequency Identification Sensors	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 Fundamentals of High Bit-Rate Data Transmissions						Gr	100	28	14	58		4.0	DA	DI
9.00 3G, 4 G and 5G Mobile Communications						Gr	100	28	14	58		4.0	DA	DI
10.00 Data Mining and Analytics using Python						Gr	100	28	14	58		4.0	DA	DI
11.10 Quality of Service in Next Generation Networks						Gr	100	28	14	58		4.0	DS	DO
11.20 Machine Learning Applications for Wireless Communications						Gr	100	28	14	58		4.0	DS	DO
11.30 Machine Learning for Image Analisys						Gr	100	28	14	58		4.0	DS	DO
11.40 Management and Orchestration in Cloud						Gr	100	28	14	58		4.0	DS	DO
11.50 Advanced Techniques for Data Streams Coding and Control						Gr	100	28	14	58		4.0	DS	DO
12.00 Research Project 2						Gr	100	0	28	72		4.0	DS	DI
13.00 Research / Practical Activity 2						Gr	250	0	196	54		10.0	DS	DI
TOTAL AN	7	0	6	2	13									
			15.00			8	0	4	2	14	sem1	4	1	2
											sem2	4	1	1
											1500	210	574	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	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						Gr	125	28	14	83		5.0	DC	DFac
203.10 Educational Communication						Gr	125	14	28	83		5.0	DC	DFac
203.20 Educational Research Methodology						Gr	125	14	28	83		5.0	DC	DFac

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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	DC	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 Communication Technologies for Intelligent Transportation Systems	2	0	1	0	0						Gr				100	28	14	58	4.0		DA	DI
15.00 Deep Learning in Telecommunications	2	0	1	0	0						Gr				100	28	14	58	4.0		DA	DI
16.10 Radio Networks Design	2	0	1	0	0						Gr				100	28	14	58	4.0		DS	DO
16.20 Intelligent Wireless Communications Systems	2	0	1	0	0						Gr				100	28	14	58	4.0		DS	DO
16.30 Traffic Prediction in Telecom Networks Using AI	2	0	1	0	0						Gr				100	28	14	58	4.0		DS	DO
16.40 Advanced Software Elements in Telecommunications	2	0	1	0	0						Gr				100	28	14	58	4.0		DS	DO
16.50 Relational Databases	2	0	1	0	0						Gr				100	28	14	58	4.0		DS	DO
17.10 Biometric Security Systems	2	0	1	0	0						Gr				100	28	14	58	4.0		DS	DO
17.20 Data Engineering in Cloud	2	0	1	0	0						Gr				100	28	14	58	4.0		DS	DO
17.30 Security in IT Systems	2	0	1	0	0						Gr				100	28	14	58	4.0		DS	DO
17.40 AI-Based Cybersecurity	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	8	0	4	2	14	0	0	0	9	14	sem1	4	1	1	1500	112	672	716	30.0	30.0		
											sem2	0	3	0						+ 10		

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		DC	DFac
205.10 School Organization Management	1	2	0	0	0						Gr				125	14	28	83	5.0		DC	DFac

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205.20 Metacognitive Education	1	2	0	0	0			Gr	125	14	28	83	5.0	DC	DFac						
205.30 Intercultural Education	1	2	0	0	0			Gr	125	14	28	83	5.0	DC	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			Gr	125	0	42	83	5.0	DC	DFac	
207.00 Graduation exam - Level II						0	0	0	0	0			Gr	0	0	0	0	5.0	DC	DFac	
304.00 Volunteering 4						0	1	0	0	0			A/R	50	0	14	36	2.0	DC	DFac	
TOTAL AN	5	4	2	0	0	0	1	0	0	3	sem1	2	1	1	550	70	140	340	15.0	7.0	
											sem2	0	1	1						+ 5	

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	C	S	L	P	Pr/Ce	Credite	Examene	Colocvii si verificari	Total evaluari	Nr.examene/tot.evaluari
Anul I	210	0	140	56	378	60	8	5	13	62 %
Anul II	112	0	56	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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