

Domain ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGIES ENGINEERING

Program Name TELECOMMUNICATIONS TECHNOLOGIES AND SYSTEMS (ENGLISH LANGUAGE)

Study Level BACHELOR

CURRICULA

Valid for the Academic Year 2025-2026

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COURSE CODE AND TITLE		Year I										Methods of Assessment				No. 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	C	S	L	P	PR												
1.00	Mathematical Analysis	2	2	0	0	0						Gr		100	28	28	44	4.0		DF	DI		
2.00	Linear Algebra, Analytical and Differential Geometry	2	2	0	0	0						Gr		125	28	28	69	5.0		DF	DI		
3.00	Physics I	2	2	0	0	0						Gr		100	28	28	44	4.0		DF	DI		
4.00	Computer Programming and Programming Languages I	2	0	2	0	0						Gr		125	28	28	69	5.0		DF	DI		
5.00	Passive Components and Circuits	2	0	2	0	0						Gr		125	28	28	69	5.0		DD	DI		
6.00	Applied Informatics	2	0	2	0	0						Gr		125	28	28	69	5.0		DF	DI		
7.00	Physical Education and Sports I	0	0	2	0	0						A/R		50	0	28	22	2.0		DC	DI		
8.00	Special Mathematics						2	2	0	0	0	Gr		125	28	28	69	5.0		DF	DI		
9.00	Differential Equations						2	2	0	0	0	Gr		125	28	28	69	5.0		DF	DI		
10.00	Physics II						2	1	0	0	0	Gr		100	28	14	58	4.0		DF	DI		
11.00	Computer Programming and Programming Languages II						2	0	2	0	0	Gr		125	28	28	69	5.0		DF	DI		
12.00	Electronic Devices						2	0	2	0	0	Gr		125	28	28	69	5.0		DD	DI		
13.00	Basics of Electrotechnics I						2	2	0	0	0	Gr		100	28	28	44	4.0		DD	DI		
14.10	English Language 1						2	1	0	0	0	Gr		50	28	14	8	2.0		DC	DO		
14.20	French Language 1						2	1	0	0	0	Gr		50	28	14	8	2.0		DC	DO		
14.30	German Language 1						2	1	0	0	0	Gr		50	28	14	8	2.0		DC	DO		
TOTAL AN		12	6	8	0	0	14	8	4	0	0	sem1	5	0	2	1500	364	364	772	30.0	30.0		
												sem2	5	0	2								

201.00 Educational Psychology	2	2	0	0	0						Gr			125	28	28	69	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 Pedagogy I (The Fundamentals of Pedagogy, Curriculum Theory and Methodology)						2	2	0	0	0	Gr			125	28	28	69		5.0	DC	DFac
302.00 Volunteering 2						0	1	0	0	0		A/R		50	0	14	36		2.0	DC	DFac

Rector,
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TOTAL AN	2	3	0	0	0	2	3	0	0	0	sem1	1	0	1	350	56	84	210	7.0	7.0	
			5.00					5.00			sem2	1	0	1							

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COURSE CODE AND TITLE	Year II										Methods of Assessment				No. 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	C	S	L	P	PR												
15.00 Computer-Aided Graphics	2	0	2	0	0							Gr	100	28	28	44		4.0		DF	DI	
16.00 Basics of Electrotechnics II	2	2	0	0	0							Gr	100	28	28	44		4.0		DD	DI	
17.00 Signals and Systems	2	1	1	0	0							Gr	125	28	28	69		5.0		DD	DI	
18.00 Materials for Electronics	2	0	1	0	0							Gr	100	28	14	58		4.0		DD	DI	
19.00 Digital Integrated Circuits	2	1	1	0	0							Gr	100	28	28	44		4.0		DD	DI	
20.00 Fundamental Electronic Circuits	2	1	2	0	0							Gr	125	28	42	55		5.0		DD	DI	
21.10 English Language 2	1	1	0	0	0							Gr	50	14	14	22		2.0		DC	DO	
21.20 French Language 2	1	1	0	0	0							Gr	50	14	14	22		2.0		DC	DO	
21.30 German Language 2	1	1	0	0	0							Gr	50	14	14	22		2.0		DC	DO	
22.00 Physical Education and Sports II	0	0	2	0	0							A/R	50	0	28	22		2.0		DC	DI	
23.00 Measurements in Electronics and Telecommunications						2	1	1	0	0		Gr	100	28	28	44		4.0		DD	DI	
24.00 Microwaves						2	0	2	0	0		Gr	100	28	28	44		4.0		DD	DI	
25.00 Analysis and Synthesis of Circuits						2	1	1	0	0		Gr	125	28	28	69		5.0		DD	DI	
26.00 Analog Integrated Circuits						2	1	1	0	0		Gr	100	28	28	44		4.0		DD	DI	
27.00 Systems with Digital Integrated Circuits						2	0	1	1	0		Gr	125	28	28	69		5.0		DD	DI	
28.00 Computer Aided Design Techniques						2	0	2	0	0		Gr	100	28	28	44		4.0		DD	DI	
29.00 Software Engineering						2	0	2	0	0		Gr	100	28	28	44		4.0		DS	DI	
TOTAL AN	13	6	9	0	0	14	3	10	1	0	sem1	5	0	3	1500	378	406	716	30.0	30.0		
				28.00					28.00		sem2	5	0	2								

100.00 Python Programming	1	0	1	0	0							Gr	75	14	14	47	3.0	DS DFac
203.00 Pedagogy II (Instruction Theory and Methodology, Assessment Theory and Methodology)	2	2	0	0	0							Gr	125	28	28	69	5.0	DC DFac
303.00 Volunteering 3	0	1	0	0	0							A/R	50	0	14	36	2.0	DC DFac
204.00 Didactics of the Specialization						2	2	0	0	0		Gr	125	28	28	69	5.0	DC DFac
304.00 Volunteering 4						0	1	0	0	0		A/R	50	0	14	36	2.0	DC DFac

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TOTAL AN	3	3	1	0	0	2	3	0	0	0	sem1	2	0	1	425	70	98	257	10.0	7.0	
			7.00					5.00			sem2	1	0	1							

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COURSE CODE AND TITLE	Year III										Methods of Assessment			Num. 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	C	S	L	P	PR												
30.00 Systems with Analog Integrated Circuits	2	0	2	1	0						Gr		125	28	42	55		5.0		DD	DI	
31.00 Microprocessors Architecture	2	0	2	0	0						Gr		125	28	28	69		5.0		DD	DI	
32.00 Optoelectronics	2	0	2	0	0						Gr		125	28	28	69		5.0		DD	DI	
33.00 Theory of Information Transmission	2	1	2	0	0						Gr		125	28	42	55		5.0		DD	DI	
34.00 Modulation Techniques	2	1	2	0	0						Gr		125	28	42	55		5.0		DS	DI	
35.00 Web Technologies and Databases	2	0	2	0	0						Gr		125	28	28	69		5.0		DS	DI	
36.00 Telephony						2	0	2	0	0	Gr		75	28	28	19			3.0	DS	DI	
37.00 Microprocessor-based Systems						2	0	2	0	0	Gr		100	28	28	44			4.0	DS	DI	
38.00 Decision and Estimation in Information Processing						2	0	2	0	0	Gr		75	28	28	19			3.0	DD	DI	
39.00 Switching and Routing Systems						2	0	2	1	0	Gr		100	28	42	30			4.0	DS	DI	
40.00 Radiocommunications						2	0	2	1	0	Gr		100	28	42	30			4.0	DS	DI	
41.00 Computer Networks						2	0	2	0	0	Gr		100	28	28	44			4.0	DS	DI	
42.00 Practical Work in the Domain of Study (4 weeks)						0	0	0	0	25	A/R		100	0	100	0			4.0	DD	DI	
43.00 Practical Work in the Specialization (4 weeks)						0	0	0	0	25	A/R		100	0	100	0			4.0	DS	DI	
TOTAL AN	12	2	12	1	0	12	0	12	2	50	sem1	5	0	1	1500	336	606	558	30.0	30.0		
											sem2	5	2	1								

101.00 Power Supplies	2	0	2	0	0						Gr			125	28	28	69	5.0		DS	DFac
102.00 Sensors and Transducers	2	0	2	0	0						Gr			125	28	28	69	5.0		DS	DFac
103.00 Virtual Instrumentation	2	0	2	0	0							Gr		100	28	28	44	4.0		DS	DFac
104.00 FPGA Systems	2	0	2	0	0						Gr			125	28	28	69	5.0		DS	DFac
105.00 Personal and Professional Development	2	0	0	0	0							Gr		50	28	0	22	2.0		DC	DFac
106.00 German Language	1	0	1	0	0							Gr		50	14	14	22	2.0		DC	DFac
205.00 Computer Assisted Training	1	0	1	0	0							Gr		50	14	14	22	2.0		DF	DFac
206.00 Teaching Practice in Compulsory Pre-university Education ~(1)	0	0	0	0	3							Gr		75	0	42	33	3.0		DF	DFac
305.00 Volunteering 5	0	1	0	0	0							A/R		50	0	14	36	2.0		DC	DFac
107.00 Power Electronics						2	0	2	0	0	Gr			75	28	28	19		3.0	DS	DFac

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108.00 Electronic Microsystems Technology		2	0	2	0	0	Gr	100	28	28	44	4.0	DS	DFac	
109.00 Data Acquisition Systems		2	0	1	2	0	Gr	125	28	42	55	5.0	DS	DFac	
110.00 Microcontrollers		2	0	2	0	0	Gr	75	28	28	19	3.0	DD	DFac	
207.00 Classroom Management		1	1	0	0	0	Gr	75	14	14	47	3.0	DF	DFac	
208.00 Teaching Practice in Compulsory Pre-university Education ~ (2)		0	0	0	0	3	Gr	50	0	36	14	2.0	DF	DFac	
209.00 Graduation Exam - Level I		0	0	0	0	0	Gr	125	0	0	125	5.0	DC	DFac	
306.00 Volunteering 6		0	1	0	0	0	A/R	50	0	14	36	2.0	DC	DFac	
TOTAL AN	12 1 10 0 23.00	3	9	2	7	2	3	sem1 3 3 3 sem2 3 1 3	1425	294	386	745	30.0 22.0 + 5		

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COURSE CODE AND TITLE	Year IV										Methods of Assessment	No. 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	C	S	L	P	PR									
44.00 Television Engineering	2	0	2	0	0						Gr	125	28	28	69	5.0		DD	DI
45.00 Digital Signal Processing	2	0	2	0	0						Gr	100	28	28	44	4.0		DD	DI
46.00 Internet Protocols	2	0	2	0	0						Gr	125	28	28	69	5.0		DS	DI
47.00 Mobile Communications	2	0	2	0	0						Gr	125	28	28	69	5.0		DS	DI
48.00 Project - Internet of Things Systems	0	0	0	1	0						Gr	50	0	14	36	2.0		DS	DI
49.10 Data Transmissions	2	0	2	0	0						Gr	100	28	28	44	4.0		DS	DO
49.20 Cellular Radiocommunications	2	0	2	0	0						Gr	100	28	28	44	4.0		DS	DO
50.10 Development of 2D/3D Interactive Environments	2	0	1	1	0						Gr	100	28	28	44	4.0		DS	DO
50.20 Digital Image Processing	2	0	1	1	0						Gr	100	28	28	44	4.0		DS	DO
51.10 English Language	1	0	0	0	0						Gr	25	14	0	11	1.0		DC	DO
51.20 French Language	1	0	0	0	0						Gr	25	14	0	11	1.0		DC	DO
51.30 German Language	1	0	0	0	0						Gr	25	14	0	11	1.0		DC	DO
52.00 Project Management						1	0	0	0	0	Gr	50	14	0	36	2.0		DS	DI
53.10 Optoelectronic Systems in Telecommunications						2	0	2	0	0	Gr	125	28	28	69	5.0		DS	DO
53.20 Applied Electronics						2	0	2	0	0	Gr	125	28	28	69	5.0		DS	DO
54.10 Multimedia Technologies and Virtual Media						2	0	1	2	0	Gr	125	28	42	55	5.0		DS	DO
54.20 Speech Processing						2	0	1	2	0	Gr	125	28	42	55	5.0		DS	DO
55.10 Digital Techniques for Video Analysis						2	0	1	1	0	Gr	125	28	28	69	5.0		DS	DO
55.20 Signal Processors						2	0	1	1	0	Gr	125	28	28	69	5.0		DS	DO
56.10 Financial Management						2	0	0	0	0	Gr	75	28	0	47	3.0		DC	DO
56.20 Marketing						2	0	0	0	0	Gr	75	28	0	47	3.0		DC	DO
57.10 Entrepreneurial Education						1	0	0	0	0	Gr	50	14	0	36	2.0		DC	DO
57.20 Ethics and Academic Integrity						1	0	0	0	0	Gr	50	14	0	36	2.0		DC	DO
58.00 Graduation Project						0	0	0	4	0	Gr	100	0	56	44	4.0		DS	DI
59.00 Field-Specific Research for the Graduation Project						0	0	0	0	5	Gr	100	0	70	30	4.0		DS	DI
60.00 Diploma Project Defense						0	0	0	0	0	Gr	0	0	0	0	10.0		DS	DI

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TOTAL AN	13011226.00	0	10047526.00	sem1503sem2017	1500322406772	30.030.0+ 10	
111.00 Integrated Circuits and Systems for Automotive	20200			Gr	75282819	3.0	DSDFac
307.00 Volunteering 7	01000			A/R	5001436	2.0	DCDFac
112.00 Software Development Methods for the Automotive Industry			20200	Gr	75282819	3.0	DSDFac
113.00 Cybersecurity			20200	Gr	75282819	3.0	DSDFac
308.00 Volunteering 8			01000	A/R	5001436	2.0	DCDFac
TOTAL AN	21205.00	0	41409.00	sem1101sem2012	32584112129	5.08.0	

	C	S	L	P	PR	Credite	Examene	Colocvii si verificari	Total evaluari	Nr.examene/tot.evaluari
Anul I	364	196	168	0	0	60	10	4	14	71 %
Anul II	378	126	266	14	0	60	10	5	15	67 %
Anul III	336	28	336	42	200	60	10	4	14	71 %
Anul IV	322	0	210	126	70	60	5	11	16	31 %
TOTAL	1400	350	980	182	270	240	35	24	59	59 %

NUMAR ORE TOTAL	3182	DIN CARE	270.00	ORE PRACTICA	total ore calc.cu 240 ore de practica	3152.00
TOTAL ORE CURS, SEMINAR, LAB.,PROIECT	2912					
TOTAL ORE DISCIPLINE FUNDAMENTALE - TIP DF	546	17.32 %	din tot.activ.didactice oblig	min. 17%		
TOTAL ORE DISCIPLINE IN DOMENIU - TIP DID	1293	41.02 %	din tot.activ.didactice oblig	min. 38%		
TOTAL ORE DISCIPLINE DE SPECIALITATE - TIP DS	1131	35.88 %	din tot.activ.didactice oblig	min. 25%		
TOTAL ORE DISCIPLINE COMPLEMENTARE - TIP DC	182	5.77 %	din tot.activ.didactice oblig.	max 8%		
TOTAL ORE DISCIPLINE IMPUSE - CAT DI	2732	86.68 %	din tot.activ.didactice oblig	max. 90%		
TOTAL ORE DISCIPLINE OPTIONALE - CAT OP	420	13.32 %	din tot.activ.didactice oblig	min. 10%		
TOTAL ORE DISCIPLINE FACULTATIVE - CAT F	1184	37.56 %	din tot.activ.didactice oblig	min. 10%		
TOTAL ORE CURS	1400					
TOTAL ORE ACTIVITATI APLICATIVE	calc. cu 240 ore practica	1752				
RAPORT CURS / ACTIV. PRACTICE	calc. cu 240 ore practica	0.80	1 +/- 0.20			
TOTAL ORE DE PREGATIRE INDIVIDUALA	2818					
total ore didactice pe saptamana	213					

OBS. Disciplina Practica pedagogica in invatamantul preuniversitar anul 3 sem.2 se studiaza pe parcursul a 12 saptamani
Examenul de absolvire: nivelul I se desfasoara pe parcursul a 2 saptamani

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