

Domain

Program Name TELECOMMUNICATIONS TECHNOLOGIES AND SYSTEMS ( ENGLISH LANGUAGE)

Study Level BACHELOR

**CURRICULA**

Valid for the Academic Year

2024-2025

Pag. 1

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	C								
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 Devices 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 Sport I	0	0	2	0	0	A/R	50	0	28	22	2.0		DC	DI
8.00 Special Mathematics						Gr	125	28	28	69		5.0	DF	DI
9.00 Differential Equations						Gr	125	28	28	69		5.0	DF	DI
10.00 Physics II						Gr	100	28	14	58		4.0	DF	DI
11.00 Computer Programming and Programming Languages II						Gr	125	28	28	69		5.0	DF	DI
12.00 Electronic Devices						Gr	125	28	28	69		5.0	DD	DI
13.00 Basics of Electrotechnics I						Gr	100	28	28	44		4.0	DD	DI
14.10 English Language 1						Gr	50	28	14	8		2.0	DC	DO
14.20 French Language 1						Gr	50	28	14	8		2.0	DC	DO
14.30 German Language 1						Gr	50	28	14	8		2.0	DC	DO
<b>TOTAL AN</b>	<b>12</b>	<b>6</b>	<b>8</b>	<b>0</b>	<b>0</b>		<b>14</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>0</b>			
			<b>26.00</b>											
						sem1	5	0	2		<b>1500</b>	<b>364</b>	<b>364</b>	<b>772</b>
						sem2	5	0	2					
											<b>30.0</b>	<b>30.0</b>		

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)						Gr	125	28	28	69		5.0	DC	DFac
302.00 Volunteering 2						A/R	50	0	14	36		2.0	DC	DFac

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TOTAL AN	2	3	0	0	0	2	3	0	0	0	sem1	1	0	1	<b>350</b>	56	84	210	7.0	7.0	
	5.00					5.00					sem2	1	0	1							

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COURSE CODE AND TITLE	Year I					Year II					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	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 Sport 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	
<b>TOTAL AN</b>	<b>13</b>	<b>6</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>3</b>	<b>10</b>	<b>1</b>	<b>0</b>	sem1	5	0	3	<b>1500</b>	<b>378</b>	<b>406</b>	<b>716</b>	<b>30.0</b>	<b>30.0</b>		
			<b>28.00</b>					<b>28.00</b>			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	<b>425</b>	70	98	257	10.0	7.0	
			7.00								sem2	1	0	1							

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COURSE CODE AND TITLE	Year III					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												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 Stage 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	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			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	3	9	2	7	2	3	sem1	3	3	3	1425	294	386	745	30.0	22.0	
				23.00						20.00		sem2	3	1	3						+ 5	

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COURSE CODE AND TITLE	Year IV					Methods 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	C	S	L	P	PR									E
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 Practical Stage 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	13	0	11	2	0	10	0	4	7	5	sem1	5	0	3	<b>1500</b>	322	406	772	30.0	30.0	
			26.00					26.00			sem2	0	1	7						+ 10	

111.00 Integrated Circuits and Systems for Automotive	2	0	2	0	0						Gr				75	28	28	19	3.0		DS DFac
307.00 Volunteering 7	0	1	0	0	0						A/R				50	0	14	36	2.0		DC DFac
112.00 Software Development Methods for the Automotive Industry						2	0	2	0	0	Gr				75	28	28	19		3.0	DS DFac
113.00 Cybersecurity						2	0	2	0	0	Gr				75	28	28	19		3.0	DS DFac
308.00 Volunteering 8						0	1	0	0	0	A/R				50	0	14	36		2.0	DC DFac

TOTAL AN	2	1	2	0	0	4	1	4	0	0	sem1	1	0	1	<b>325</b>	84	112	129	5.0	8.0	
			5.00					9.00			sem2	0	1	2							

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Study Level LICENTA

## CURRICULA

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	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	<b>total ore calc.cu 240 ore de practica</b>	<b>3152.00</b>
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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