

COURSE CODE AND TITLE	Year: I										Method 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 AI Fundamentals	2	0	1	0	0						Gr			100	28	14	58	4.0		DF	DOB	
2.00 Software for Signal / Image Processing and AI	1	0	2	0	0						Gr			100	14	28	58	4.0		DS	DOB	
3.00 Statistical Signal Processing	2	0	1	0	0						Gr			100	28	14	58	4.0		DF	DOB	
4.00 Mathematical Methods and Numerical Algorithms for Signal/Image Processing and Machine Learning	2	0	1	0	0						Gr			100	28	14	58	4.0		DF	DOB	
5.00 Ethics and Academic Integrity	1	0	0	0	0							Gr		50	14	0	36	2.0		DC	DOB	
6.10 Sparse Representations for Signal and Image Processing	1	0	1	0	0						Gr			100	14	14	72	4.0		DS	DOP	
6.20 AI Technologies for Mobile Applications	1	0	1	0	0						Gr			100	14	14	72	4.0		DS	DOP	
6.30 Virtual and Augmented Reality	1	0	1	0	0						Gr			100	14	14	72	4.0		DS	DOP	
6.40 Audio Signal Compression Techniques	1	0	1	0	0						Gr			100	14	14	72	4.0		DS	DOP	
7.00 Research / Practical Activity 1	0	0	0	0	13							Gr		200	0	182	18	8.0		DS	DOB	
8.00 Advanced Techniques for Image and Video Processing						2	0	1	0	0	Gr			100	28	14	58		4.0	DF	DOB	
9.10 Computer Vision						2	0	1	0	0	Gr			100	28	14	58		4.0	DS	DOP	
9.20 Speech Analysis, Synthesis and Recognition						2	0	1	0	0	Gr			100	28	14	58		4.0	DS	DOP	
10.00 Neural Networks and Deep Learning						2	0	1	0	0	Gr			100	28	14	58		4.0	DS	DOB	
11.10 Reconfigurable Architectures for Signal / Image Processing and AI						2	0	1	0	0	Gr			100	28	14	58		4.0	DS	DOP	
11.20 Smart Sensor Networks and IoT						2	0	1	0	0	Gr			100	28	14	58		4.0	DS	DOP	
12.00 Research Project 1						0	0	0	2	0		Gr		100	0	28	72		4.0	DS	DOB	
13.00 Research / Practical Activity 2						0	0	0	0	14		Gr		250	0	196	54		10.0	DS	DOB	
TOTAL PER YEAR	9	0	6	0	13	8	0	4	2	14	sem1	5	1	1	1500	238	546	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		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 Assesment 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		

Rector,
Prof. dr. ing. Vasile Ţopa

Dean,
Prof. dr. ing. Ovidiu Aurel Pop

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

FACULTY OF Faculty of Electronics, Telecommunications and Information Technology
Domain Electronics, Telecommunications and Information Technologies Engineering -
Program Name AI and Signal Processing for Electronics and Telecomm (in english)
Study Level Master Research

CURRICULA Valid for the Academic Year 2026-2027

	4.0		7.0	sem2	2	0	1		
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COURSE CODE AND TITLE	Year: II										Method 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												
14.00	AI-Based Cybersecurity	1	0	2	0	0						Gr		100	14	28	58	4.0		DA	DOB	
15.00	Bioinformatics	1	0	2	0	0						Gr		100	14	28	58	4.0		DS	DOB	
16.00	Neural Networks and Deep Learning	2	0	1	0	0						Gr		100	28	14	58	4.0		DS	DOB	
17.00	Data Mining	1	0	2	0	0						Gr		100	14	28	58	4.0		DS	DOB	
18.10	Coding and Compression for Images and Video Sequences	1	0	1	0	0						Gr		100	14	14	72	4.0		DA	DOP	
18.20	Traffic Prediction in Telecom Networks Using AI	1	0	1	0	0						Gr		100	14	14	72	4.0		DA	DOP	
18.30	Cognitive Communications	1	0	1	0	0						Gr		100	14	14	72	4.0		DA	DOP	
18.40	Natural Language Processing	1	0	1	0	0						Gr		100	14	14	72	4.0		DA	DOP	
19.00	Research / Practical Activity 3	0	0	0	0	14						Gr		250	0	196	54	10.0		DS	DOB	
20.00	Research / Practical Activity 4						0	0	0	0	14	Gr		250	0	196	54	10.0		DS	DOB	
21.00	Dissertation Project Work						0	0	0	9	0	Gr		250	0	126	124	10.0		DS	DOB	
22.00	Field Specific Research for the Master Thesis						0	0	0	0	5	Gr		250	0	70	180	10.0		DS	DOB	
23.00	Presentation of Dissertation						0	0	0	0	0	Gr		0	0	0	0	10.0		DS	DOB	
TOTAL PER YEAR		6	0	8	0	14	0	0	0	9	14	sem1	5	1	0	1500	84	700	716	30.0	30.0	
					14.0					14.0		sem2	0	3	0							+ 10

100.00	Introduction to Quantum Information	2	0	2	0	0						Gr		75	28	28	19	3.0		DA	DFA	
204.00	Didactics of the Field and Developments in Didactics Specialties (High School and Post High School Education)	2	1	0	0	0						Gr		125	28	14	83	5.0		DC	DFA	
205.10	School Organization Management	1	2	0	0	0						Gr		125	14	28	83	5.0		DC	DFA	
205.20	Metacognitive Education	1	2	0	0	0						Gr		125	14	28	83	5.0		DC	DFA	
205.30	Intercultural Education	1	2	0	0	0						Gr		125	14	28	83	5.0		DC	DFA	
303.00	Volunteering 3	0	1	0	0	0						A/R		50	0	14	36	2.0		DC	DFA	
206.00	Teaching Practice (in Secondary School and Tertiary Education)						0	0	0	0	3	Gr		125	0	42	83	5.0		DC	DFA	
207.00	Graduation Exam - Level II						0	0	0	0	0	Gr		0	0	0	0	5.0		DC	DFA	
304.00	Volunteering 4						0	1	0	0	0	A/R		50	0	14	36	2.0		DC	DFA	
TOTAL YEAR		5	4	2	0	0	0	1	0	0	3	sem1	2	1	1	550	70	140	340	15.0	7.0	
					11.0					1.0		sem2	0	1	1							+ 5

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	C	S	L	P	Pr/Ce	Credits	Exams	Curriculum and verif.	Total evaluations	No.exams/tot.evaluations
Anul I	238	0	140	28	378	60	9	4	13	69 %
Anul II	84	0	112	126	462	60	5	4	9	56 %
TOTAL	322	0	252	154	840	120	14	8	22	64 %

TOTAL NUMBER OF HOURS 1568 OF WHICH 840 PRACTICE HOURS.

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