

COURSE CODE AND TITLE	Year: I					Method 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/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 sem2	1500	238	546	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	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 PER YEAR	2	2	0	0	0	3	4	0	0	0	sem1	475	70	84	321	7.0	12.0		

Rector,
Prof. dr. ing. Vasile Topa

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**

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	4.0		7.0	sem2	2	0	1		
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Department Director,
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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														
14.00 AI-Based Cybersecurity	1	0	2	0	0	Gr	100	14	28	58	4.0		DF	DOB					
15.00 Bioinformatics	1	0	2	0	0	Gr	100	14	28	58	4.0		DS	DOB					
16.00 Machine 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		DF	DOP					
18.20 Traffic Prediction in Telecom Networks Using AI	1	0	1	0	0	Gr	100	14	14	72	4.0		DF	DOP					
18.30 Cognitive Communications	1	0	1	0	0	Gr	100	14	14	72	4.0		DF	DOP					
18.40 Natural Language Processing	1	0	1	0	0	Gr	100	14	14	72	4.0		DF	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						Gr	250	0	196	54	10.0		DS	DOB					
21.00 Research activity for elaboration of dissertation thesis						Gr	250	0	70	180	10.0		DS	DOB					
22.00 Dissertation Project Work						Gr	250	0	126	124	10.0		DS	DOB					
23.00 Presentation of Dissertation						Gr	0	0	0	0	10.0		DS	DOB					
TOTAL PER YEAR	6	0	8	0	14		1500	84	700	716	30.0	30.0							
			14.0				sem1												
							sem2												

100.00 Introduction to Quantum Information	2	0	2	0	0	Gr	75	28	28	19	3.0		DF	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)						Gr	125	0	42	83	5.0		DC	DFA
207.00 Graduation Exam - Level II						Gr	0	0	0	0	5.0		DC	DFA
304.00 Volunteering 4						A/R	50	0	14	36	2.0		DC	DFA
TOTAL PER YEAR	5	4	2	0	0		550	70	140	340	15.0	7.0		
			11.0				sem1							
							sem2							

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	C	S	L	P	Pr/Ce	ECTS	Exams	Curriculum and verif.	Total evaluations	No.exams/tot.evaluations
Year I	238	0	140	28	378	60	9	4	13	69 %
Year II	84	0	112	196	392	60	5	4	9	56 %
TOTAL	322	0	252	224	770	120	14	8	22	64 %

NUMAR ORE TOTAL	1568
TOTAL ORE DIDACTICE	798
TOTAL ORE DISCIPLINE FUNDAMENTALE - TIP DF	238
TOTAL ORE DISCIPLINE DE SPECIALIZARE - TIP DS	1316
TOTAL ORE DISCIPLINE COMPLEMENTARE - TIP DC	14
TOTAL ORE CURS	322
TOTAL ORE APLICARE PRACTICA	476
RAPORT CURS / APLICARE PRACTICA	0.68
TOTAL ORE DE PREGATIRE INDIVIDUALA	1432

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