

UNIVERSITY OF PETROȘANI
 Faculty of MECHANICAL AND ELECTRICAL ENGINEERING
 Fundamental field: ENGINEERING SCIENCES

MINISTRY OF EDUCATION, RESEARCH, YOUTH AND SPORTS
 D.G.I.S.

Field of bachelor studies: COMPUTERS AND INFORMATION TECHNOLOGY
 Master studies program: APPLIED INFORMATION TECHNIQUES AND TECHNOLOGIES
 MASTER STUDIES - day courses, 2 years x 2 sem./year x 14 weeks./sem. x 16 hours/week., 4 weeks session/sem.

CURRICULUM
 VALID BEGINNING WITH ACADEMIC YEAR 2011 - 2012

Nr. crt.	YEAR I Subject	Subject code	Subj. type	Semester 1				SI	Semester 2				SI	Pct. crd.	Ei, Ci	Nr. hours/subject			Total preg.	
				C	S	L	PI		C	S	L	PI				Course	Apl.	Total		
1	Software engineering and programming	2TTIA1A01	A	2		2	4	100						6	E1	28	28	56	156	
2	Image processing and virtual reality	2TTIA1A02	A	2		2	4	100						6	E1	28	28	56	156	
3	Control architecture in programmed logic	2TTIA1A03	A	2		2	4	100						6	E1	28	28	56	156	
4	OP I.1	2TTIA1S04	S	2		2	4	100						6	E1	28	28	56	156	
5	Research I (individual training)	2TTIA1A05	A				4	100						6	V1	0	56	56	156	
6	VLSI design and programming	2TTIA1A06	A						2	2	4	100	6	E2	28	28	56	156		
7	Information techniques applied in production of regenerative er	2TTIA1S07	S						3	1	4	100	6	E2	42	14	56	156		
8	OP II.1	2TTIA1A08	A						2	2	4	100	6	E2	28	28	56	156		
9	OP II.2	2TTIA1S09	S						2	2	4	100	6	E2	28	28	56	156		
10	Research II (individual training)	2TTIA1S10	S								4	100	6	V2	0	56	56	156		
TOTAL year I				8	0	8	20		9	0	7	20		60		238	322	560	1560	
				16					16											

Nr. crt.	YEAR II Subject	Subject code	Subj. type	Semester 3				SI	Semester 4				SI	Pct. crd.	Ei, Ci	Nr. hours/subject			Total preg.	
				C	S	L	PI		C	S	L	PI				Course	Apl.	Total		
11	Neuro - fuzzy networks	2TTIA2S11	S	2		2	4	100						6	E3	28	28	56	156	
12	Virtual instrumentation advanced techniques	2TTIA2S12	S	2		2	4	100						6	E3	28	28	56	156	
13	Software applied in CIM structures control	2TTIA2A13	A	2		2	4	100						6	E3	28	28	56	156	
14	OP III.1	2TTIA2S14	S	2		2	4	100						6	E3	28	28	56	156	
15	Research III (individual training)	2TTIA2S15	S				4	100						6	V3	0	56	56	156	
16	Research/documentation/practical training for elaboration of dis	2TTIA2S16	S								14	780	20	V4	0	196	196	520		
17	Presentation of dissertation	2TTIA2S17	S								2		10	E4	0	28	28	28		
TOTAL year II				8	0	8	20		0	0	0	16		60		112	392	504	1328	
				16					16											

PI - Individual training
 SI - Individual study

RECTOR,
 Prof.univ.dr.ing.mat. Emil POP

DEAN,
 Prof.univ.dr.ing. Aron POANTA

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OPTIONAL SUBJECTS				
Nr. crt.	Subj. code	Sem. study	Name of subject	
4	OP I.1	I	Measurement information systems	Intelligent sensors and sensor networks
8	OP II.1	II	Modeling and simulation techniques	Adaptive identification and estimation software
9	OP II.2	II	SCADA systems	Intelligent control systems
14	OP III.1	III	PLC programming and applications	INTERNET systems engineering

ELECTIVE SUBJECTS																	
Nr. crt.	Subj. code	Sem. study	Subject name	Sem. I			Sem. II			Pct crd.	Trainin. hours	Ei Ci	Nr. Hours/subject				
				C	S	L	C	S	L				Curs	Apl.		Total	
18	F21	II	Communication techniques I	1		1				3		0	A/R	14	14		28
19	F22	II	Communication techniques II					1	1	3		1	A/R	14	14		28

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