Faculty of Automatic Control and Computers
University POLITEHNICA Bucharest

Master of Science in Complex Signal Processing for Multimedia Applications
– Taught in Romanian -

Code	Course	Sem	C	S	L	P	CP	Evaluation
UPB.03. M4.O.17-01	Advanced Methods in Complex Image Processing, 3D Analysis	I	2			1	4	E
UPB.03. M4.O.17-02	Advanced Signal Processing through Orthogonal Transforms	I	2	1			4	E
UPB.03. M4.O.17-03	Digital Signal Processors and Real Time Video and Audio Processing	I	2		1	1	4	E
UPB.03. M4.O.17-04	Information Systems Security	I	2			1	4	E
UPB.03. M4.O.17-05	Information search and retrieval techniques	I	2			`1	4	E
	Total teaching hours: 16 h		**10**	**1**	**1**	**4**	**20**	
UPB.03. M4.O.17-06	**Research activities: 12 h**	I	12				10	P
	Total		**28 hours/week**				**30**	
UPB.03. M4.O.17-07	High Security Level Audio-Video Coding	II	2			1	4	E
UPB.03. M4.O.17-08	Fractal Techniques in Multimedia Applications	II	2			1	4	E
UPB.03. M4.O.17-09	Parallel Processing in Multimedia Applications	II	2		1	1	4	E
UPB.03. M4.O.17-10	Service Oriented Architectures and Web Technologies	II	2		1		4	E
UPB.03. M4.O.17-11	Course option 1*	II	2			1	4	E
	Total teaching hours: 16 h		**10**		**2**	**4**	**20**	
UPB.03. M4.O.17-12	**Research activities: 12 h**	II	12				10	P
	Total		**28 hours/week**				**30**	
UPB.03. M4.O.17-13	Digital Image Processing in Geographic Information Systems	III	2			1	4	E
UPB.03. M4.O.17-14	Complex Processing in Medical Imaging	III	2		1	1	4	E
UPB.03.	Entrepreneurship, Intellectual	II	2	1			4	E

M4.O.17-15	Property Protection and Dissemination of Research	**I**						
UPB.03. M4.O.17-16	Course option 2**	**II I**	2			1	4	E
UPB.03. M4.O.17-17	Planning applications and project management	**II I**	2			1	4	E
	Total teaching hours: 16 h		**10**	**1**	**1**	**4**	**20**	
UPB.03. M4.O.17-18	**Research activities: 12 h**	**II I**	12				10	P
	Total		**28 hours/week**				**30**	
UPB.03. M4.O.17-19	**M.Sc. thesis preparation**: **12 h**	**I V**	12				12	P/NP
UPB.03. M4.O.17-20	**Research activities:16 h**	**I V**	16				18	P
	Total teaching hours: 0 h	**I V**						
	Total		**28 hours/week**				**30**	

Evaluation: E-exam with grading; V-verification during the semester with grading;
P- project with grading. The grading scale is 1-10.
P/NP – verification during the semester with P (Passed) or NP (Not passed) grade.

Course option 1*:
1: Software Testing and Quality Assurance
2: High Performance Computing

Course option 2**:
1: Virtual Reality Systems
2: Information Protection in E-Systems

Program coordinator
Prof. dr. ing. Dan Popescu

Dean
Prof. Adina Magda Florea