

## Master of Advanced Control and Real Time Systems – Taught in Romanian –

### Curriculum

Code	Course	Sem	C	S	L	P	CP	Evaluation
UPB.03.M1.O.11-01	Automata, micro-systems and embedded systems	I	2		2		5	E
UPB.03.M1.O.11-02	Process simulators and operator console	I	2		2		5	E
UPB.03.M1.O.11-03	Design of real-time control applications	I	3		2		5	E
UPB.03.M1.O.11-04	Advanced signal identification and processing techniques	I	3		2		5	E
	<b>Total teaching hours: 18h</b>		10		8		20	
UPB.03.M1.O.11-05	<b>Academic research: 10h</b>	I				10	10	P
	<b>TOTAL</b>				<b>28</b>		<b>30</b>	
UPB.03.M2.O.11-06	Real time programming	II	3			2	6	E
UPB.03.M2.O.11-07	Implementations of control systems in industrial environment	II	3		2		6	E
UPB.03.M2.O.11-08	Advanced control techniques for fault diagnosis and tolerance	II	2		2		5	E
	<b>Total teaching hours: 14h</b>		8		4	2	17	
UPB.03.M2.O.11-09	<b>Academic research: 14h</b>	II				14	13	P
	<b>TOTAL</b>				<b>28</b>		<b>30</b>	
UPB.03.M3.O.11-010	Advanced control for real-time applications	III	2		2		5	E
UPB.03.M3.O.11-011	Optimization and control decisions	III	2		1		5	E
UPB.03.M3.O.11-012	Industrial automatics – case studies	III	2		2		5	E
UPB.03.M3.O.11-013	Course option	III	2		1		5	E
	<b>Total teaching hours: 14h</b>		8		6		20	
UPB.03.M3.O.11-014	<b>Research activities: 14h</b>	III				14	10	P
	<b>TOTAL</b>				<b>28</b>		<b>30</b>	
	<b>Total teaching hours: 0h</b>	IV						
UPB.03.M4.O.11-015	<b>M.Sc. thesis preparation</b>	IV				12	15	P/NP
UPB.03.M4.O.11-016	<b>Research: 16h</b>	IV				16	15	P
	<b>Total</b>						<b>30</b>	

**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.

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*Dean*  
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