University "Politehnica" of Timisoara (Universitatea "Politehnica" Timisoara)

Faculty of Automation and Computers (Facultatea de Automatica si Calculatoare)

Domain: **Computers and Information Technology (Domeniul: Calculatoare si Tehnologia Informatiei)**

Title and Type of Master Programme Studies: **Information Technology, Development of Graduation Studies (Titlul si Tipul de Master: Tehnologia Informatiei, Aprofundarea in domeniul Studiilor de licenta)**

Type of education: **Day training (Forma de invatamant: Cu frecventa)**

Duration: **2 years (Durata studiilor: 2 ani)**

CURRICULA - MASTER INFORMATION TECHNOLOGY

	Anul I (2010/2011)		Anul II (2010/2011)	
	SEMESTER I	**SEMESTER II**	**SEMESTER III**	**SEMESTER IV**
1.	Optional 1 (choose from 9L3)	Optional 1 (choose from 10L3)	Optional 1 (choose from 11L3)	Research Activity
	E 9 28 0 28 0 70	E 9 28 0 28 0 70	E 9 28 0 28 0 70	15 140
2.	Optional 2 (choose from 9L3)	Optional 2 (choose from 10L3)	Optional 2 (choose from 11L3)	Master thesis elaboration
	E 9 28 0 28 0 70	E 9 28 0 28 0 60	E 9 28 0 28 0 60	15 140
3.	Optional 3 (choose from 9L3)	Optional 3 (choose from 10L3)	Optional 3 (choose from 11L3)	
	E 9 28 0 28 0 70	E 9 28 0 28 0 70	E 9 28 0 28 0 70	
4.	Research topics in information technology	Introduction to research	Directed thesis research	
	D 3 28 0 0 0 50	D 3 28 0 0 60	D 3 0 28 0 0 60	
5.				
6.				
7.				
8.	*9 optional disciplines must be chosen (see the attached document containing optional disciplines):* *- at least 3 Breadth Coverage (BC)(DS) disciplines; - at least 2 Depth Coverage (DC)(DA) disciplines; - least 1 Advanced Electives (AE)(DCA) discipline*			
total / semester	hours: ##	VPI	260	hours: 196	VPI	260	hours: 196	VPI	260	hours: 0	VPI	280
	credits: 30	evaluations: 3E,1D	4	credits: 30	evaluations: 3E,1D	4	credits: 30	evaluations: 3E,1D	4	credits: 30	evaluation	2
total / week	hours: 14			hours: 14			hours: 14			hours: 0		
	of which 8 0 6 0 (c, s, l, p)	of which 8 0 6 0 (c, s, l, p)	of which 6 2 6 0 (c, s, l, p)	of which 0 0 0 0 (c, s, l, p)

Optional courses

		SEMESTER I							SEMESTER II							SEMESTER III							SEMESTER IV				
1.		Optional 9L3 - Distributed systems (*)(BC)							Optional 10L3 - Advanced databases (*)(BC)							Optional 11L3 - Advanced Digital Signal Processing(*)(BC)											
	E	9	28	0	28		0	DS	E	9	28	0	28		0	DS	E	9	28	0	28		0	DS				
2.		Optional 9L3 - Testing of computer systems(*) (BC)							Optional 10L3 - Development of complex distributed applications (*)(BC)							Optional 11L3 - Emergent and collective intelligence systems (*)(BC)											
	E	9	28	0	28		0	DS	E	9	28	0	28		0	DS	E	9	28	0	28		0	DS				
3.		Optional 9L3 - Data Transmission, Coding and Compression (DC)							Optional 10L3 - Information Technology Project Management (DC)							Optional 11L3 - Advanced Web Programming (*)(DC)											
	E	9	28	0	28		0	DA	E	9	28	0	28			DA	E	9	28	0	28		0	DA				
4.		Optional 9L3 - Smart sensors and sensor networks(*) (DC)							Optional 10L3 - Integrated information systems (*)(DC)							Optional 11L3 - Advanced Software Technologies (DC)											
	E	9	28	0	28		0	DA	E	9	28	0	28		0	DA	E	9	28	0	28		0	DA				
5.		Optional 9L3 - Component based software engineering (*)AE)							Optional 10L3 - Real time system design(*) (AE)							Optional 11L3 - Applied Mathematics (AE) - external course											
	E	9	28	0	28		0	DCA	E	9	28	0	28		0	DCA	E	9	28	0	28		0	DCA				
6.									Optional 10 L3 - Cellular data networks (*) (AE)																			
									E	9	28	0	28		0	DCA												
7.																												
8.																												

RECTOR,
Prof.dr.ing. Nicolae ROBU