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)**

Domeniul fundamental de ierarhizare (DFI): **Stiinte ingineresti**
Ramura de stiinta (RSI): **Ingineria sistemelor, calculatoare si tehnologia informatiei**
Domeniul de ierarhizare (DII): **Ingineria sistemelor, calculatoare si tehnologia informatiei**
Domeniul de studii universitare de masterat **(DSU_M)**: **Calculatoare si tehnologia informatiei**

Cod DFI.Cod RSI.Cod DII.Cod DSU_M
20.60.10.10

CURRICULA - MASTER INFORMATION TECHNOLOGY

	Anul I (2011/2012)			Anul II (2011/2012)	
	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: 196	VPI	260	hours: 196	VPI	260	hours: 196	VPI	260	hours: 0	VPI	280
	credits: **30**	evaluations: 3E,1D	4	credits: **30**	valuations: 3E,1	4	credits: **30**	aluations: 3E,1	4	credits: **30**	evaluatio	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.					

Legend

Tabel Structure

Course name						
FE	nc	c	s	l	p	CF VPI

Ex.

Research topics in information technology						
D	3	28	0	0	0	50

FE may be : D, E

c - course
D - distributed evaluation
E - exam
FE - evaluation forms
   CF - formativ cathegory to which the
        DA - Profund study courses
        DCA - Advanced knowledge courses
        DS - Synthesis courses

l - laboratory
nc - number of credits
p - projects
s - seminar
VPI - volum de ore necesar pregatirii individuale
pentru un semestru de 14 sapt plus 4 sapt de sesiune
(*) - discipline optionale activate in anul universitar 2011/2012

RECTOR,
Prof.dr.ing. Nicolae ROBU