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 (2012/2013)																Anul II (2012/2013)															
	SEMESTER I									SEMESTER II									SEMESTER III									SEMESTER IV					
1.	Optional 1 (choose from 9L3 or 11L3)									Optional 1 (choose from 10L3)									Optional 1 (choose from 9L3 or 11L3)									Research activity and intership					
	E	9	28	0	28	0		49		E	9	28	0	28	0		49		E	9	28	0	28	0		49		15			63	70	
2.	Optional 2 (choose from 9L3 or 11L3)									Optional 2 (choose from 10L3)									Optional 2 (choose from 9L3 or 11L3)									Master Thesis Development and Defense					
	E	9	28	0	28	0		49		E	9	28	0	28	0		49		E	9	28	0	28	0		49		15			63		
3.	Optional 3 (choose from 9L3 or 11L3)									Optional 3 (choose from 10L3)									Optional 3 (choose from 9L3 or 11L3)														
	E	9	28	0	28	0		49		E	9	28	0	28	0		49		E	9	28	0	28	0		49							
4.	Research topics in information technology									Introduction to research									Directed thesis research														
	D	3	28	0	0	0		49		D	3	28		0	0		49		D	3	0	28	0	0		49							
5.																																	
6.																																	
7.																																	
8.	***9 optional disciplines must be chosen (see the attached document containing optional disciplines):*** ***- at least 3 Breadth Coverage (BC) disciplines; - at least 4 Advanced Electives (AE) disciplines; - remaining disciplines: BC or AE or from other Master's curricula***																																
total / semester	hours: 196			VPI			196			hours: 196			VPI			196			hours: 196			VPI			196		hours: 126			VPI		70	
	credits: **30**			evaluations: 3E,1D			4			credits: **30**			evaluations: 3E,1D			4			credits: **30**			evaluations: 3E,1D			4		credits: **30**			evaluations: 1P		1	
total / week	hours: **14**									hours: **14**									hours: **14**									hours: **9**						
	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	9		(c, s, l, p)

Optional courses

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

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 2012/2013

RECTOR,
Prof.dr.ing. Viorel-Aurel SERBAN