Politehnica University 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: **Computer Engineering, Development of Graduation Studies (Titlul si Tipul de Master: Ingineria Calculatoarelor, 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 COMPUTER ENGINEERING

	Anul I (2013/2014)																Anul II (2013/2014)															
	SEMESTER I												SEMESTER II												SEMESTER III												SEMESTER IV											
1.	Optional 1 (choose from 9L1or 11L1)												Optional 1 (choose from 10L1)												Optional 1 (choose from 9L1 or 11L1)												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 9L1or 11L1)												Optional 2 (choose from 10L1)												Optional 2 (choose from 9L1 or 11L1)												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 9L1or 11L1)												Optional 3 (choose from 10L1)												Optional 3 (choose from 9L1 or 11L1)																							
	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 computer systems												Introduction to research												Directed thesis research																							
	D	3	28	0	0	0		49					D	3	28	0	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 3 Advanced Electives (AE); - remaining disciplines from BC, AE or 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 9L1 - Testing of computer systems(*) E 9 28 0 28 0 BC	Optional 10L1 - Advanced embedded systems(*) E 9 28 0 28 0 BC	Optional 11L1 - Advanced digital signal processing (*) E 9 28 0 28 0 BC	Research Activity 15 98
2.	Optional 9L1 - Image processing and recognition(*) E 9 28 0 28 0 BC	Optional 10L1 - Integrated information systems (*) E 9 28 0 28 0 BC	Optional 11L1 - Robotic systems E 9 28 0 28 0 BC	Development and Defense of Master Thesis 15 98
3.	Optional 9L1 - Smart sensors and sensor networks(*) E 9 28 0 28 0 BC	Optional 10L1 - Cellular data networks(*) E 9 28 0 28 0 BC	Optional 11L1 - Emergent and collective intelligence systems (*) E 9 28 0 28 0 AE	
4.	Optional 9L1 - Data transmission, coding and compression E 9 28 0 28 0 AE	Optional 10L1 - Optic fiber transmissions(*) E 9 28 0 28 0 AE	Optional 11L1 - Evolvable hardware (*) E 9 28 0 28 0 AE	
5.	Optional 9L1 - Emerging systems(*) E 9 28 0 28 0 AE	Optional 10L2 - Automatic design and optimization of VLSI circuits(*) E 9 28 0 28 0 AE	Optional 11L1 - Advanced artificial intelligence(*) E 9 28 0 28 0 AE	
6.	Optional 9L1 - High-end interfaces and equipments (*) E 9 28 0 28 0 AE	Optional 10L1 - Virtual measurement systems E 9 28 0 28 0 AE	Directed thesis research Directed thesi 3 0 28 0 0	
	Research topics in computer systems D 3 28 0 0 0	Introduction to research D 3 28 0 0 0		

Legend

Tabel Structure

Course name							
FE	nc	c	s	l	p	CF	VPI

Ex.

Research topics in computer systems							
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 course belongs:
AE - Advances Elective
BC -Breadth Coverage

l - laboratory
nc - number of credits
p - projects
s - seminar
VPI - number of hours necessary for individual study
pentru un semestru de 14 sapt plus 4 sapt de sesiune
(*) - discipline optionale activate in anul universitar 2013/2014

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