

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: 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 (2011/2012)												Anul II (2011/2012)																	
SEMESTER I						SEMESTER II						SEMESTER III						SEMESTER IV											
1.	Optional 1 (choose from 9L1)						Optional 1 (choose from 10L1)						Optional 1 (choose from 11L1)						Research practical intership										
	E	9	28	0	28	0	70	E	9	28	0	28	0	70	E	9	28	0	28	0	70	15				63	140		
2.	Optional 2 (choose from 9L1)						Optional 2 (choose from 10L1)						Optional 2 (choose from 11L1)						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				63	140		
3.	Optional 3 (choose from 9L1)						Optional 3 (choose from 10L1)						Optional 3 (choose from 11L1)																
	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 computer systems						Introduction to research						Directed thesis research																
	D	3	28	0	0	0	50	D	3	28	0	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: 260	##	VPI	260	credits: 30	evaluations:3E, 1D	4	hours: 196	VPI	196	credits: 30	evaluations:3E, 1D	4	hours: 196	VPI	196	credits: 30	evaluations:3E, 1D	4	hours: 126	VPI	126	credits: 30	evaluat	280				
total / week	hours: 14	of which: 8	0	6	0	(c, s, l, p)		hours: 14	of which: 8	0	6	0	(c, s, l, p)		hours: 14	of which: 6	2	6	0	(c, s, l, p)		hours: 9	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(*) (BC) E 9 28 0 28 0 DC	Optional 10L1 - Advanced embedded systems(*) (BC) E 9 28 0 28 0 DC	Optional 11L1 - Advanced digital signal processing (*) (BC) E 9 28 0 28 0 DS	
2.	Optional 9L1 - Image processing and recognition(*) (BC) E 9 28 0 28 0 DC	Optional 10L1 - Integrated information systems (*) (BC) E 9 28 0 28 0 DC	Optional 11L1 - Emergent and collective intelligence systems (*) (DC) E 9 28 0 28 0 DA	
3.	Optional 9L1 - Smart sensors and sensor networks(*) (DC) E 9 28 0 28 0 DA	Optional 10L1 - Optic fiber transmissions(*) (DC) E 9 28 0 28 0 DA	Optional 11L1 - Evolvable hardware (*) (DC) E 9 28 0 28 0 DA	
4.	Optional 9L1 - Data transmission, coding and compression (DC) E 9 28 0 28 0 DA	Optional 10L1 - Cellular data networks(*) (DC) E 9 28 0 28 0 DA	Optional 11L1 - Advanced artificial intelligence(*) (AE) E 9 28 0 28 0 DCA	
5.	Optional 9L1 - Emerging systems(*) (AE) E 9 28 0 28 0 DCA	Optional 10L2 - Automatic design and optimization of VLSI circuits(*) (AE) E 9 28 0 28 0 DCA		
6.	Optional 9L1 - High-end interfaces and equipments (*) (AE) E 9 28 0 28 0 DCA	Optional 9L1 - High-end interfaces and equipments (AE)		

Legend

Table Structure

Course name									
FE	nc	c	s	l	p	CF	VPI		

FE may be: D, E
c - course
D - distributed evaluation
E - exam
FE - evaluation forms
CF - formativ category to which the course belongs:
DA - Profund study courses
DCA - Advanced knowledge courses
DS - Synthesis courses

Ex.

Research topics in computer systems									
D	3	28	0	0	0	0	0	0	50

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 2011/2012

RECTOR,
Prof.dr.Ing. Nicolae ROBU

