

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 Tehnologie 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 (2012/2013)												Anul II (2012/2013)																																				
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

2.	SEMESTER I								SEMESTER II								SEMESTER III								SEMESTER IV								
1.	Optional 9L1 - Testing of computer systems(*)								Optional 10L1 - Advanced embedded systems(*)								Optional 11L1 - Advanced digital signal processing (*)																
	E	9	28	0	28	0	BC		E	9	28	0	28	0	BC		E	9	28	0	28	0	BC										
2.	Optional 9L1 - Image processing and recognition(*)								Optional 10L1 - Integrated information systems (*)								Optional 11L1 - Robotic systems																
	E	9	28	0	28	0	BC		E	9	28	0	28	0	BC		E	9	28	0	28	0	BC										
3.	Optional 9L1 - Smart sensors and sensor networks(*)								Optional 10L1 - Cellular data networks(*)								Optional 11L1 - Emergent and collective intelligence systems (*)																
	E	9	28	0	28	0	BC		E	9	28	0	28	0	BC		E	9	28	0	28	0	AE										
4.	Optional 9L1 - Data transmission, coding and compression								Optional 10L1 - Optic fiber transmissions(*)								Optional 11L1 - Evolvable hardware (*)																
	E	9	28	0	28	0	AE		E	9	28	0	28	0	AE		E	9	28	0	28	0	AE										
5.	Optional 9L1 - Emerging systems(*)								Optional 10L2 - Automatic design and optimization of VLSI circuits(*)								Optional 11L1 - Advanced artificial intelligence(*)																
	E	9	28	0	28	0	AE		E	9	28	0	28	0	AE		E	9	28	0	28	0	AE										
6.	Optional 9L1 - High-end interfaces and equipments (*)								Optional 10L1 - Virtual measurementsystems																								
	E	9	28	0	28	0	AE		E	9	28	0	28	0	AE																		

Legend

Table Structure

Course name							
FE	nc	c	s	I	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:

AE - Advances Elective

BC -Breadth Coverage

Ex.

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

I - 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 2012/2013

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