

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: Software Engineering, Development of Graduation Studies (Titlul si Tipul de Master: Ingineria Software, Aprofundarea in domeniul Studiilor de licenta)

Type of education: Day training (Forma de invatamant: cu frecvent)

Duration: 2 years (Durata studiilor: 2 ani)

CURRICULA - MASTER SOFTWARE ENGINEERING

Ist YEAR (2010/2011)												IInd YEAR (2010/2011)																														
		SEMESTER I						SEMESTER II						SEMESTER III						SEMESTER IV																						
1.	Optional 1 (choose from 9L2)						Optional 1 (choose from 10L2)						Optional 1 (choose from 11L2)						Practical research internship																							
	E	9	28	0	28	0			70	E	9	28	0	28	0			70	E	9	28	0	28	0			60		0				63	140								
2.	Optional 2 (choose from 9L2)						Optional 2 (choose from 10L2)						Optional 2 (choose from 11L2)						Master thesis preparation																							
	E	9	28	0	28	0			70	E	9	28	0	28	0			60	E	9	28	0	28	0			60		30				63	140								
3.	Optional 3 (choose from 9L2)						Optional 3 (choose from 10L2)						Optional 3 (choose from 11L2)																													
	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 software engineering						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			70															
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 2 Depth Coverage (DC) disciplines; - least 1 Advanced Electives (AE) discipline																																									
total / semester	hours: 196	VPI				260	hours: 196	VPI					260	hours: ##	VPI					260	hours: ##	VPI				280																
	credits: 30	evaluations:3E, 1D				4	credits: 30	evaluations:3E, 1D					4	credits: 30	evaluations:3E, 1D					4	credits: 30	evaluations:				2																
total / week	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)					

CURRICULA - MASTER SOFTWARE ENGINEERING

	SEMESTER I								SEMESTER II								SEMESTER III								SEMESTER IV							
1.	Optional 9L2 - Advanced algorithms (BC)								Optional 10L2 - Advanced databases(*) (BC)								Optional 11L2 - Advanced software technologies (DC)															
	E	9	28	0	28	0		DS		E	9	28	0	28	0		DS		E	9	28	0	28	0		DA						
2.	Optional 9L2 - Programming language design and analysis(*) (BC)								Optional 10L2 - Development of complex distributed applications (*) (DC)								Optional 11L2 - Advanced web programming (*) (DC)															
	E	9	28	0	28	0		DS		E	9	28	0	28	0		DA		E	9	28	0	28	0		DA						
3.	Optional 9L2 - Distributed systems(*) (BC)								Optional 10L2 - Formal verification and program analysis (DC)								Optional 11L2 - Neural networks(*) (AE)															
	E	9	28	0	28	0		DS		E	9	28	0	28	0		DA		E	9	28	0	28	0		DCA						
4.	Optional 9L2 - Component based software engineering(*) (DC)								Optional 10L2 - Real time system design(*) (DC)								Optional 11L2 - Parallel algorithms(*) (AE)															
	E	9	28	0	28	0		DA		E	9	28	0	28	0		DA		E	9	28	0	28	0		DCA						
5.	Optional 9L2 - Compiler design (*) (DC)								Optional 10L2 - Machine learning and cognitive models (*) (AE)								Optional 11L2 - Graphics processing systems (*) (AE)															
	E	9	28	0	28	0		DA		E	9	28	0	28	0		DCA		E	9	28	0	28	0		DCA						
6.	Optional 9L2 - Pattern recognition (*) (AE)								Optional 10L2 - Heuristic methods (*) (AE)																							
	E	9	28	0	28	0		DCA		E	9	28	0	28	0		DCA															
7.									Optional 10L2 - Information technology project management (AE)																							
									E	9	28	0	28	0		DCA																
8.																																

Legend

Tabel 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

DA - Profund study courses

DCA - Advanced knowledge courses

DS - Synthesis courses

Ex.

Research topics in software engineering							
D	3	28	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 2010/2011