

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 frecventa)

Duration: 2 years (Durata studiilor: 2 ani)

CURRICULA - MASTER SOFTWARE ENGINEERING

	SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV
1.	<i>Optional 1 (choose from 9L2 or 11L2)</i>	<i>Optional 1 (choose from 10L2)</i>	<i>Optional 1 (choose from 9L2 or 11L2)</i>	<i>Practical research internship</i>
	E 9 28 0 28 0	E 9 28 0 28 0	E 9 28 0 28 0	15 98
2.	<i>Optional 2 (choose from 9L2 or 11L2)</i>	<i>Optional 2 (choose from 10L2)</i>	<i>Optional 2 (choose from 9L2 or 11L2)</i>	<i>Development and Defense of Master Thesis</i>
	E 9 28 0 28 0	E 9 28 0 28 0	E 9 28 0 28 0	15 98
3.	<i>Optional 3 (choose from 9L2 or 11L2)</i>	<i>Optional 3 (choose from 10L2)</i>	<i>Optional 3 (choose from 9L2 or 11L2)</i>	
	E 9 28 0 28 0	E 9 28 0 28 0	E 9 28 0 28 0	
4.	<i>Research topics in software engineering</i>	<i>Introduction to research</i>	<i>Directed thesis research</i>	
	D 3 28 0 0 0	D 3 28 0 0 0	D 3 0 28 0 0	
5.				
6.				
7.				
8.	<i>9 optional disciplines must be chosen (see the attached document containing optional disciplines): - at least 3 Breadth Coverage (BC) disciplines; - at least 3 Depth Coverage (DC) disciplines; - remaining disciplines = Advanced Electives (AE)</i>			
total / semester	hours: 196 credits: 30	evaluations: 3E, 1D	hours: 196 credits: 30	evaluations: 3E, 1D
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: 14 of which 0 0 0 14 (c, s, l, p)

Legend: E = exam, D = distributed evaluation
c = course, s = seminar, l = laboratory, p = project

RECTOR,
Prof.dr.ing. Nicolae ROBU

DECAN,
Prof.dr.ing. Octavian PROSTEAN

CURRICULA - MASTER SOFTWARE ENGINEERING

	SEMESTER I						SEMESTER II						SEMESTER III						SEMESTER IV																	
1.	<i>Optional 9L2 - Advanced algorithms (BC)</i>						<i>Optional 10L2 - Advanced databases (BC)</i>						<i>Optional 11L2 - Advanced software technologies (DC)</i>						<i>Practical internship</i>																	
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0	15					98												
2.	<i>Optional 9L2 - Programming language</i>						<i>Optional 10L2 - Development of complex distributed applications (DC)</i>						<i>Optional 11L2 - Advanced web programming (DC)</i>						<i>Development and Defense of Master Thesis</i>																	
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0	15					98												
3.	<i>Optional 9L2 - Distributed systems (BC)</i>						<i>Optional 10L2 - Formal verification and program analysis (DC)</i>						<i>Optional 11L2 - Neural networks (AE)</i>																							
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0																		
4.	<i>Optional 9L2 - Component based software engineering (DC)</i>						<i>Optional 10L2 - Real time system design (DC)</i>						<i>Optional 11L2 - Parallel algorithms (AE)</i>																							
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0																		
5.	<i>Optional 9L2 - Compiler design (DC)</i>						<i>Optional 10L2 - Machine learning and cognitive models (AE)</i>						<i>Optional 11L2 - Graphics processing systems (AE)</i>																							
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0																		
6.	<i>Optional 9L2 - Pattern recognition (AE)</i>						<i>Optional 10L2 - Heuristic methods (AE)</i>						<i>Directed thesis research</i>																							
	E	9	28	0	28	0	E	9	28	0	28	0	D	3	0	28	0	0																		
7.	<i>Research topics in software systems</i>						<i>Optional 10L2 - Information technology</i>																													
	D	3	28	0	0	0	E	9	28	0	28	0																								
8.							<i>Introduction to research</i>																													
							D	3	28	0	0	0																								
9.	<i>9 optional disciplines must be chosen (see the attached document containing optional disciplines):</i>																																			
	<i>- at least 3 Breadth Coverage (BC) disciplines; - at least 3 Depth Coverage (DC) disciplines; - remaining disciplines = Advanced Electives (AE)</i>																																			
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	credits: 30						3E, 1D						credits: 30						3E, 1D						credits: 30						1P					
total / week	hours: 14						hours: 14						hours: 14						hours: 14																	
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