

**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		0				63												
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>Master thesis preparation</i>																	
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0		30				63												
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.	<p align="center"><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></p>																																			
total / semester	hours: 196						evaluations:						hours: 196						evaluations:						hours: 126						evaluations:					
	credits: <b>30</b>						3E, 1D						credits: <b>30</b>						3E, 1D						credits: <b>30</b>						1P					
total / week	hours: <b>14</b>						hours: <b>14</b>						hours: <b>14</b>						hours: <b>9</b>																	
	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)												

**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		0				63												
2.	<i>Optional 9L2 - Programming language design and analysis (BC)</i>						<i>Optional 10L2 - Development of complex distributed applications (DC)</i>						<i>Optional 11L2 - Advanced web programming (DC)</i>						<i>Master thesis preparation</i>																	
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0		30				63												
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 project management (AE)</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																								
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	credits: <b>30</b>						3E, 1D						credits: <b>30</b>						3E, 1D						credits: <b>30</b>						1P					
total / week	hours: <b>14</b>						hours: <b>14</b>						hours: <b>14</b>						hours: <b>9</b>																	
	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)																	

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