

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: Information Technology, Development of Graduation Studies (Titlul si Tipul de Master: Tehnologia Informatiei, 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 INFORMATION TECHNOLOGY

	SEMESTER I				SEMESTER II				SEMESTER III				SEMESTER IV			
1.	<i>Optional 1 (choose from 9L3 or 11L3)</i>				<i>Optional 1 (choose from 10L3)</i>				<i>Optional 1 (choose from 9L3 or 11L3)</i>				<i>Research Activity</i>			
	E	9	28	0	E	9	28	0	E	9	28	0	15			98
2.	<i>Optional 2 (choose from 9L3 or 11L3)</i>				<i>Optional 2 (choose from 10L3)</i>				<i>Optional 2 (choose from 9L3 or 11L3)</i>				<i>Development and Defense of Master Thesis</i>			
	E	9	28	0	E	9	28	0	E	9	28	0	15			98
3.	<i>Optional 3 (choose from 9L3 or 11L3)</i>				<i>Optional 3 (choose from 10L3)</i>				<i>Optional 3 (choose from 9L3 or 11L3)</i>							
	E	9	28	0	E	9	28	0	E	9	28	0				
4.	<i>Research topics in information technology</i>				<i>Introduction to research</i>				<i>Directed thesis research</i>							
	D	3	28	0	D	3	28	0	D	3	0	28				
5.																
6.																
7.																
8.	<i>9 optional disciplines must be chosen (see the attached document containing optional disciplines):</i>															
	<i>- at least 2 disciplines in Category 1 (C1); - at least 5 disciplines in Category 2 (C2); - remaining disciplines = electives</i>															
total / semester	hours: 196				evaluations:				hours: 196				evaluations:			
	credits: <b>30</b>				3E, 1D				credits: <b>30</b>				3E, 1D			
total / week	hours: <b>14</b>				hours: <b>14</b>				hours: <b>14</b>				hours: <b>14</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 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 INFORMATION TECHNOLOGY

	SEMESTER I						SEMESTER II						SEMESTER III						SEMESTER IV																													
1.	<i>Optional 9L3 - Distributed systems (C1)</i>						<i>Optional 10L3 - Information technology project management (C1)</i>						<i>Optional 11L3 - Advanced web programming (C1)</i>						<i>Research Activity</i>																													
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0		15				98																								
2.	<i>Optional 9L3 - Component based software engineering (C1)</i>						<i>Optional 10L3 - Advanced databases (C1)</i>						<i>Optional 11L3 - Advanced software technologies (C2)</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 9L3 - Testing of computer systems (C2)</i>						<i>Optional 10L3 - Development of complex distributed applications (C2)</i>						<i>Optional 11L3 - Advanced digital signal processing (C2)</i>																																			
	E	9	28	0	28	0	E	9	28	0	28	0	E	9	28	0	28	0																														
4.	<i>Optional 9L3 - Smart sensors and sensor networks (C2)</i>						<i>Optional 10L3 - Real time system design (C2)</i>						<i>Directed thesis research</i>																																			
	E	9	28	0	28	0	E	9	28	0	28	0	D	3	0	28	0	0																														
5.	<i>Optional 9L3 - Data transmission, coding and compression (C2)</i>						<i>Optional 10L3 - Integrated information systems (C2)</i>																																									
	E	9	28	0	28	0	E	9	28	0	28	0																																				
6.	<i>Research topics in information technology</i>						<i>Optional 10 L3 - Applied Mathematics (external course) (C1)</i>																																									
	D	3	28	0	0	0	E	9	28	0	28	0																																				
7.							<i>Optional 10 L3 - Cellular data networks (C1)</i>																																									
							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 2 disciplines in Category 1 (C1); - at least 5 disciplines in Category 2 (C2); - remaining disciplines = electives</i>																																															
total / semester	hours: 196						evaluations:						hours: 224						evaluations:						hours: 168						evaluations:						hours: 196						evaluations:					
	credits: 30						3E, 1D						credits: 36						3E, 1D						credits: 27						3E, 1D						credits: 30						1P					
total / week	hours: 14						hours: 16						hours: 12						hours: 14																													
	of which: 8 0 6 0 (c, s, l, p)						of which: 8 0 8 0 (c, s, l, p)						of which: 6 0 6 0 (c, s, l, p)						of which: 0 0 0 14 (c, s, l, p)																													

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