

Facultatea: Automatica si Calculatoare

Domeniul de licenta: **Calculatoare si Tehnologie Informatiei**

Programul de studii univ. de masterat: **TEHNOLOGIA INFORMATIEI/ INFORMATION TECHNOLOGY**

Forma de invatamant: **cu frecventa**

Durata studiilor: **2 ani**

Domeniul fundamental de ierarhizare (**DFI**): Stiinte ingineresti

Ramura de stiinta (**RSI**): Ingineria sistemelor, calculatoare si tehnologia informatiei

Domeniul de studii universitare de masterat (**DSU\_M**): Calculatoare si tehnologia informatiei

Cod DFI.Cod RSI.Cod DSU\_M

20 60 10

**CURRICULA**  
**Academic year 2014 - 2015**

**1<sup>st</sup> YEAR**

	SEMESTER 1							SEMESTER 2						
1.	Optional 1 (choose from 9L3 or 11L3)							Optional 1 (choose from 10L3)						
	9	E	28	0	28	0	170	9	E	28	0	28	0	170
2.	Optional 2 (choose from 9L3 or 11L3)							Optional 2 (choose from 10L3)						
	9	E	28	0	28	0	170	9	E	28	0	28	0	170
3.	Optional 3 (choose from 9L3 or 11L3)							Optional 3 (choose from 10L3)						
	9	E	28	0	28	0	170	9	E	28	0	28	0	170
4.	Research topics in information technology							Introduction to research						
	3	D	28	0	0	0	45	3	D	28	0	0	0	45
5.														
6.														
7.														
8.														
9.	9 optional disciplines must be chosen (see the attached document containing optional disciplines): - at least 3 Breadth Coverage (BC) disciplines; - at least 4 Advanced Electives (AE); - remaining disciplines from BC, AE or other Master's curricula													
total / semestru	ore: 196		VPI: 555		ore: 196		VPI: 555							
	credite: 30		evaluări: 3E, 1D		credite: 30		evaluări:							
total / săptămână	ore: 14				ore: 14									
	din care:		8 0 6 0 (c, s, l, p)		din care:		8 0 6 0 (c, s, l, p)							

**Legenda**

Nume disciplina								
Cod	nc	FE	c	s	l	p	CF	VPI

Cod = cod disciplina  
nc = nr.credite transferabile  
FE = forma de evaluare

FE ∈ {E, D, C, P-E, P-D}

E=examen  
D=evaluare distribuita

c=nr.ore curs/semestru

s=nr.ore seminar

l=nr.ore laborator

p=nr.ore proiect

CF=categorie formativa careia ii apartine disciplina

CF ∈ {DA, DCA, DS}

DA - disciplina de aprofundare

DCA - disciplina de cunoastere avansata

DS- disciplina de sinteza

VPI = volum de ore necesar pregatirii individuale pentru un semestru de 14 sept. plus 4 sept. de sesiune

**Exemplu**

Tehnologii Internet								
Cod	8	E	28	0	0	28	DS	70

(\*) - discipline optionale activate in anul universitar 2014 / 2015

## ELECTIVE DISCIPLINES

### 1<sup>st</sup> YEAR

		SEMESTER 1								SEMESTER 2							
1.	Optional 9L3 - Distributed systems (BC)									Optional 10L3 - Advanced databases (BC)*							
		9	E	28	0	28	0	DS	170	9	E	28	0	28	0	DS	170
2.	Optional 9L3 - Testing of computer systems (AE)*									Optional 10L3 - Development of complex distributed applications (AE)*							
		9	E	28	0	28	0	DCA	170	9	E	28	0	28	0	DCA	170
3.	Optional 9L3 - Data transmission, coding and compression (AE)									Optional 10L3 - Information technology project management (BC)							
		9	E	28	0	28	0	DCA	170	9	E	28	0	28	0	DS	170
4.	Optional 9L3 - Smart sensors and sensor networks (AE)*									Optional 10L3 - Integrated information systems (AE)*							
		9	E	28	0	28	0	DCA	170	9	E	28	0	28	0	DCA	170
5.	Optional 9L3 - Component based software engineering (BC)*									Optional 10L3 - Real time system design (AE)*							
		9	E	28	0	28	0	DS	170	9	E	28	0	28	0	DCA	170
6.										Optional 10L3 - Cellular data networks (BC)*							
										9	E	28	0	28	0	DS	170
7.										Optional 10L3 - Applied mathematics (BC) - external course							
8.																	

## CURRICULA

### Academic year 2014 - 2015

### 2<sup>nd</sup> YEAR

		SEMESTER 3								SEMESTER 4							
1.	Optional 1 (choose from 9L3 or 11L3)									Research activity and intership							
		9	E	28	0	28	0		170	15					133		
2.	Optional 2 (choose from 9L3 or 11L3)									Master Thesis Development and Defense							
		9	E	28	0	28	0		170	15					63		
3.	Optional 3 (choose from 9L3 or 11L3)																
		9	E	28	0	28	0		170								
4.	Directed thesis research																
		3	D	0	28	0	0		45								
5.																	
6.																	
7.																	
8.																	
9.																	
total / semestru	ore:	<b>196</b>		VPI:		<b>555</b>		ore:		<b>196</b>		VPI:		<b>0</b>			
	credite:	<b>30</b>		evaluări:				credite:		<b>30</b>		evaluări:					
total / săptămână	ore:	<b>14</b>		(c, s, l, p)				ore:		<b>14</b>		(c, s, l, p)					
	din care:	6	2	6	0			din care:	0	0	0	14					

**ELECTIVE DISCIPLINES**

**2<sup>nd</sup> YEAR**

	<b>SEMESTER 3</b>	<b>SEMESTER 4</b>
1.	Optional 11L3 - Advanced digital signal processing (AE)* 9   E   28   0   28   0   DCA   170	
2.	Optional 11L3 - Emergent and collective intelligence systems (BC)* 9   E   28   0   28   0   DS   170	
3.	Optional 11L3 - Advanced web programming (BC)* 9   E   28   0   28   0   DS   170	
4.	Optional 11L3 - Advanced software technologies (AE) 9   E   28   0   28   0   DCA   170	
5.		
6.		
7.		
8.		

**RECTOR,**  
Prof.univ.dr.ing.Viorel-Aurel ȘERBAN

**DECAN,**  
Prof.dr.ing. Horia CIOCĂRLIE