

Facultatea: Automatica si Calculatoare

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

Programul de studii univ. de masterat: **INGINERIE SOFTWARE/ SOFTWARE ENGINEERING**

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 10

CURRICULA
Academic year 2014 - 2015

1st YEAR

	SEMESTER 1								SEMESTER 2							
1.	Optional 1 (choose from 9L2 or 11L2)								Optional 1 (choose from 10L2)							
	9	E	28	0	28	0		170	9	E	28	0	28	0		170
2.	Optional 2 (choose from 9L2 or 11L2)								Optional 2 (choose from 10L2)							
	9	E	28	0	28	0		170	9	E	28	0	28	0		170
3.	Optional 3 (choose from 9L2 or 11L2)								Optional 3 (choose from 10L2)							
	9	E	28	0	28	0		170	9	E	28	0	28	0		170
4.	Reseach topics in software systems								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 2 Breadth Coverage (BC) disciplines; - at least 2 Depth Coverage (DC) courses; - at least 1 Advanced Electives (AE). The remainder can be chosen among all courses, including those of the other Mater's programs in the department.															
total / semestr	ore:		196		VPI:		555		ore:		196		VPI:		555	
	credite:		30		evaluări:		3E, 1D		credite:		30		evaluări:			
total / săptămâ	ore:		14						ore:		14					
	din care:		8		0		6		0		din care:		8		0	
							(c, s, l, p)								(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 sapt. plus 4 sapt. de sesiune

Exemplu

Tehnologii Internet								
Cod	8	E	28	0	0	28	DS	70

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

ELECTIVE DISCIPLINES

1st YEAR

	SEMESTER 1								SEMESTER 2							
1.	Optional 9L2 - Advanced algorithms (BC)								Optional 10L2 - Advanced databases (BC)*							
	9	E	28	0	28	0	DS	170	9	E	28	0	28	0	DS	170
2.	Optional 9L2 - Programming language design and analysis (BC)*								Optional 10L2 - Development of complex distributed applications (DC)*							
	9	E	28	0	28	0	DS	170	9	E	28	0	28	0	DA	170
3.	Optional 9L2 - Distributed systems (BC)								Optional 10L2 - Formal verification and program analysis (DC)							
	9	E	28	0	28	0	DS	170	9	E	28	0	28	0	DA	170
4.	Optional 9L2 - Component based software engineering (DC)*								Optional 10L2 - Real time system design (DC)*							
	9	E	28	0	28	0	DA	170	9	E	28	0	28	0	DA	170
5.	Optional 9L2 - Compiler design (DC)*								Optional 10L2 - Machine learning and cognitive models (AE)*							
	9	E	28	0	28	0	DA	170	9	E	28	0	28	0	DCA	170
6.	Optional 9L2 - Pattern recognition (AE)*								Optional 10L2 - Heuristic methods (AE)*							
	9	E	28	0	28	0	DCA	170	9	E	28	0	28	0	DCA	170
7.									Optional 10L2 - Information technology project management (AE)							
									9	E	28	0	28	0	DCA	170
8.																

CURRICULA

Academic year 2014 - 2015

2nd YEAR

	SEMESTER 3								SEMESTER 4							
1.	Optional 1 (choose from 9L2 or 11L2)								Research activity and intership							
	9	E	28	0	28	0		170	15						133	
2.	Optional 2 (choose from 9L2 or 11L2)								Master Thesis Development and Defense							
	9	E	28	0	28	0		170	15						63	
3.	Optional 3 (choose from 9L2 or 11L2)															
	9	E	28	0	28	0		170								
4.	Directed thesis research															
	3	D	0	28	0	0		45								
5.																
6.																
7.																
8.																
9.																
total / semestr	ore:		196		VPI:		555		ore:		196		VPI:		0	
	credite:		30		evaluări:				credite:		30		evaluări:			
total / săptămână	ore:		14		din care:		6 2 6 0 (c, s, l, p)		ore:		14		din care:		0 0 0 14 (c, s, l, p)	

ELECTIVE DISCIPLINES

2nd YEAR

	SEMESTER 3									SEMESTER 4										
1.	Optional 11L2 - Advanced software technologies (DC)																			
	9	E	28	0	28	0	DA	170												
2.	Optional 11L2 - Advanced web programming (DC)*																			
	9	E	28	0	28	0	DA	170												
3.	Optional 11L2 - Neural networks (AE)*																			
	9	E	28	0	28	0	DCA	170												
4.	Optional 11L2 - Parallel algorithms (AE)*																			
	9	E	28	0	28	0	DCA	170												
5.	Optional 11L2 - Graphics processing systems (AE)*																			
	9	E	28	0	28	0	DCA	170												
6.																				
7.																				
8.																				

RECTOR,
Prof.univ.dr.Ing.Viorel-Aurel ȘERBAN

DECAN,
Prof.dr.ing. Horia CIOCĂRLIE