

Domeniul fundamental de ierarhizare (DFI): ȘTIINȚE INGINERESTI

Ramură de știință (RSI): INGINERIA SISTEMELOR, CALCULATOARE ȘI TEHNOLOGIA INFORMATIEI

Domeniul de ierarhizare (DII): INGINERIA SISTEMELOR, CALCULATOARE ȘI TEHNOLOGIA INFORMATIEI

Domeniul de licență (DL): COMPUTERS AND INFORMATION TECHNOLOGY

Cod DFI.	CodRSI.	CodDII.	CodDL.	CodS.
20	60	10	10	10

cicl ul	c1c 2c3	a1a 2
L	000	15

CURRICULA
Academic year 2015 - 2016

	1 st YEAR										2 nd YEAR																									
	SEMESTER 1					SEMESTER 2					SEMESTER 3					SEMESTER 4																				
1.	Mathematical analysis					Computer assisted mathematics					System theory and automatization					Microeconomics																				
	L000.15.01.F1.	5	E	28	28	0	0	DF	57	L000.15.02.F1.	5	D	28	0	28	0	DF	57	L000.15.03.D1.	4	D	28	0	28	0	DD	42	L000.15.04.F1.	3	D	28	14	0	0	DF	28
2.	Algebra and geometry					Special mathematics (Probabilities and statistics)					Data structures and algorithms					Algorithm design and analysis																				
	L000.15.01.F2.	5	E	28	28	0	0	DF	60	L000.15.02.F2.	5	E	42	28	0	0	DF	46	L000.15.03.D2.	4	E	28	0	28	0	DD	44	L000.15.04.D2.	5	E	28	0	28	0	DD	70
3.	Physics					Electrical engineering fundamentals					Object-oriented programming					Software engineering fundamentals																				
	L000.15.01.F3.	4	D	28	14	14	0	DF	38	L000.15.02.F3.	4	E	28	14	14	0	DF	38	L000.15.03.D3.	5	E	35	0	28	0	DD	64	L000.15.04.D3.	5	E	28	0	28	14	DD	54
4.	Computer programming					Electronic devices					Measurement principles, techniques and devices					Databases																				
	L000.15.01.F4.	5	E	42	0	28	0	DF	50	L000.15.02.F4.	4	D	28	0	14	0	DF	52	L000.15.03.D4.	4	D	28	14	14	0	DD	38	L000.15.04.D4.	4	D	28	0	28	0	DD	42
5.	Logic and discrete structure					Programming techniques					Computer architecture					Computer organization																				
	L000.15.01.F5.	4	E	28	28	0	0	DF	41	L000.15.02.F5.	4	E	28	0	28	0	DF	38	L000.15.03.D5.	4	E	28	0	28	0	DD	42	L000.15.04.D5.	5	E	28	0	28	14	DD	53
6.	Fundamentals of mechanical engineering and robotics					Digital logic					Digital circuits and signals					Elective discipline 1 (choosing from the appropriate sem.4 table)																				
	L000.15.01.F6.	3	D	28	0	14	0	DF	26	L000.15.02.D6.	4	E	28	0	28	0	DD	38	L000.15.03.D6.	4	E	35	0	28	0	DD	31	L000.15.04.D6.-ij	4	E	28	0	28	0	DD	38
7.	Foreign languages 1					Foreign languages 2					Communication					Culture and civilization																				
	L000.15.01.C7.	2	D	0	28	0	0	DC	20	L000.15.02.C7.	2	D	0	28	0	0	DC	20	L000.15.03.C7.	3	D	28	14	0	0	DC	30	L000.15.04.C7.	2	D	14	14	0	0	DC	18
8.	Sports 1					Sports 2					Sports 3					Sports 4																				
	L000.15.01.C8.	2	D	0	28	0	0	DC	20	L000.15.02.C8.	2	D	0	14	0	0	DC	20	L000.15.03.C8.	2	D	0	14	0	0	DC	34	L000.15.04.C8.	2	D	0	14	0	0	DC	34
9.	Optional - choose from other specialization's curricula					Optional - choose from other specialization's curricula					Optional - choose from other specialization's curricula					Optional - choose from other specialization's curricula																				
	L000.15.01.f9.							f		L000.15.02.f9.-ij							f		L000.15.03.f9.							f		L000.15.04.f9.-ij						f		
total/ sem.	ore:		392		VPI:		312		ore:		378		VPI:		309		ore:		406		VPI:		325		ore:		392		VPI:		337					
	credite:		30		evaluări:		4E, 4D		credite:		30		evaluări:		4E, 4D		credite:		30		evaluări:		3E, 4D		credite:		30		evaluări:		4E, 4D					
total/ săpt.	ore:		28						ore:		27						ore:		29						ore:		28									
	din care:		13		11		4		0		(c, s, l, p)		din care:		13		6		8		0		(c, s, l, p)		din care:		15		3		11		0		(c, s, l, p)	
																									din care:		13		3		10		2		(c, s, l, p)	

DISCIPLINE OPTIONALE (ELECTIVE DISCIPLINES)
Academic year 2015 - 2016

		2 nd YEAR																			
		SEMESTER 3						SEMESTER 4													
01														Elective 1 - Integrated circuits							
														L000.15.04.D6.-01	4	E	28	0	28	0	DD
02														Elective 1 - Fundamental concepts of programming languages							
														L000.15.04.D6.-02	4	E	28	0	28	0	DD

Domeniul fundamental de ierarhizare (DFI): STIINTE INGINERESTI

Ramura de stiinta (RSI): INGINERIA SISTEMELOR, CALCULATOARE SI TEHNOLOGIA INFORMATIEI

Domeniul de ierarhizare (DII): INGINERIA SISTEMELOR, CALCULATOARE SI TEHNOLOGIA INFORMATIEI

Domeniul de licenta (DL): COMPUTERS AND INFORMATION TECHNOLOGY

Specializarea (S): **COMPUTERS**

Cod DFI.	CodRSI.	CodDII.	CodDL.	CodS
20	60	10	10	10

ci	c1c	a1a
ul	2c3	2
L	002	15

CURRICULA
Academic year 2015 - 2016

	3 th YEAR										4 th YEAR																									
	SEMESTER 5					SEMESTER 6					SEMESTER 7					SEMESTER 8																				
1.	Computer networks					Artificial intelligence fundamentals					Elective 7 (is selected from positions 1-4 of list)					Elective 13 (is selected from positions 1-4 of list)																				
	L002.15.05.D1.	4	E	28	0	28	0	DD	38	L002.15.06.D1.	4	E	28	0	28	0	DD	38	L002.15.07.SX-ij	5	E	28	0	28	0	DS	64	L002.15.08.SX-ij	4	E	28	0	14	0	DS	52
2.	Computer engineering fundamentals					Embedded systems					Elective 8 (is selected from positions 1-7 of list)					Elective 14 (is selected from positions 1-8 of list)																				
	L002.15.05.D2.	4	E	28	0	14	14	DD	38	L002.15.06.D2.	4	E	28	0	14	14	DD	38	L002.15.07.SY-ij	5	E	28	0	28	0	DS	64	L002.15.08.SY-ij	4	E	28	0	14	0	DS	52
3.	Operating systems					Computer graphics					Elective 9 (is selected from positions 1-7 of list)					Elective 15 (is selected from positions 1-8 of list)																				
	L002.15.05.D3.	4	E	28	0	28	0	DD	38	L002.15.06.D3.	4	E	28	0	14	14	DD	42	L002.15.07.SZ-ij	5	E	28	0	28	0	DS	64	L002.15.08.SZ-ij	4	E	28	0	14	0	DS	52
4.	Digital microsystems design					Elective 4 (is selected from positions 1 and 2 of list)					Elective 10 (is selected from positions 1-7 of list)					Elective 16 (is selected from positions 1-8 of list)																				
	L002.15.05.D4.	4	E	28	0	14	14	DD	38	L002.15.06.D4.-ij	4	E	28	0	28	0	DD	38	L002.15.07.SU-ij	5	E	28	0	28	0	DS	64	L002.15.08.SU-ij	4	E	28	0	14	0	DS	52
5.	Management and marketing					Elective 5 (is selected from positions 3-6 of list)					Elective 11 (is selected from positions 8-10 of list)					Development of diploma thesis*																				
	L002.15.05.F5.	4	D	28	28	0	0	DF	18	L002.15.06.DX-ij	4	D	28	0	28	0	DS	38	L002.15.07.SV-ij	5	D	28	0	28	0	DS	64	L002.15.08.S5.	4	D				196	DS	
6.	Elective 2 (is selected from positions 1 and 2 of list)					Elective 6 (is selected from positions 3-6 of list)					Elective 12 (is selected from positions 8-10 of list)					Diploma exam**																				
	L002.15.05.SX-ij	4	D	28	0	28	0	DS	38	L002.15.06.SY-ij	4	D	28	0	28	0	DS	38	L002.15.07.SW-ij	5	D	28	0	28	0	DS	64	L002.15.08.6.	10	E				0		
7.	Elective 3 (is selected from positions 1-3 of list)										Diploma project					Optional - choose from other specialization's curricula																				
	L002.15.05.SY-ij	4	D	28	0	28	0	DS	38										L002.15.07.S7.		0	0	0		28	DS	L002.15.08.f7.							f		
8.	Applied activities (60 hours)					Applied activities (180 hours)					Optional - choose from other specialization's curricula																									
	L002.15.05.D8.	2	C					DD	60	L002.15.06.D8.	6	C					DD	180	L002.15.07.f8.							f										
9.	Optional - choose from other specialization's curricula					Optional - choose from other specialization's curricula																														
	L002.15.05.f9.-ij							f		L002.15.06.f9.-ij							f																			
total/ sem.	ore:	392			VPI:	306			ore:	336			VPI:	412			ore:	364			VPI:	384			ore:	364			VPI:	208						
	credite:	30			evaluări:	4E, 3D, 1C			credite:	30			evaluări:	4E, 2D, 1C			credite:	30			evaluări:	4E, 2D			credite:	30			evaluări:	5E, 1D						
total/ săpt.	ore:	28							ore:	24							ore:	26							ore:	26										
	din care:				14	2	10	2	(c, s, l, p)	din care:				12	0	10	2	(c, s, l, p)	din care:				12	0	12	2	(c, s, l, p)	din care:				8	0	4	14	(c, s, l, p)

*lasting 7 weeks x 28 hours of which 2 weeks x 28 hours internship **consists of: fundamental and speciality knowledge assesment, diploma exam

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

DECAN,
prof.dr.ing. Horia CIOCARLIE

DISCIPLINE OPTIONALE (ELECTIVE DISCIPLINES)
Academic year 2015 - 2016

		3 th YEAR										4 th YEAR																							
		SEMESTER 5					SEMESTER 6					SEMESTER 7					SEMESTER 8																		
1.	Elective 2,3 - Large scale integrated circuits						Elective 4 - Digital signal processing					Elective 7,8,9,10 - Peripheral interfaces and devices					Elective 13,14,15,16 - Reconfigurable computing																		
	L002.15.05.S#-01.	4	D	28	0	28	0	DS	38	L002.15.06.D4.-01.	5	E	28	0	28	0	DD	38	L002.15.07.S#-01.	5	E	28	0	28	0	DS	64	L002.15.08.S#-01.	4	E	28	0	14	0	DS
2.	Elective 2,3 - Software systems design						Elective 4 - Compilation techniques					Elective 7,8,9,10 - Digital telecommunication					Elective 13,14,15,16 - Computer systems reliability																		
	L002.15.05.S#-02.	4	D	28	0	28	0	DS	38	L002.15.06.D4.-02.	5	E	28	0	28	0	DD	38	L002.15.07.S#-02.	5	E	28	0	28	0	DS	64	L002.15.08.S#-02.	4	E	28	0	14	0	DS
3.	Elective 3 - WEB application design						Elective 5,6 - Microprocessor systems					Elective 7,8,9,10 - Modeling and simulation					Elective 13,14,15,16 - Expert systems																		
	L002.15.05.S#-03.	4	D	28	0	28	0	DS	38	L002.15.06.S#-03.	4	D	28	0	28	0	DS	38	L002.15.07.S#-03.	5	E	28	0	28	0	DS	64	L002.15.08.S#-03.	4	E	28	0	14	0	DS
4.							Elective 5,6 - Computer engineering					Elective 7,8,9,10 - Software verification and validation					Elective 13,14,15,16 - Software project management																		
										L002.15.06.S#-04.	4	D	28	0	28	0	DS	38	L002.15.07.S#-04.	5	E	28	0	28	0	DS	64	L002.15.08.S#-04.	4	E	28	0	14	0	DS
5.							Elective 5,6 - Complexity and computability					Elective 8,9,10 Mobile systems and applications					Elective 14,15,16 - Data mining																		
										L002.15.06.S#-05.	4	D	28	0	28	0	DS	38	L002.15.07.S#-05.	5	E	28	0	28	0	DS	64	L002.15.08.S#-05.	4	E	28	0	14	0	DS
6.							Elective 5,6 - Design and architecture of complex software systems					Elective 8,9,10 - Computer aided design					Elective 14,15,16 - Fuzzy logic and applications																		
										L002.15.06.S#-06.	4	D	28	0	28	0	DS	38	L002.15.07.S#-06.	5	E	28	0	28	0	DS	64	L002.15.08.S#-06.	4	E	28	0	14	0	DS
7.												Elective 8,9,10 - Database design					Elective 14,15,16 - Distributed Programming																		
																			L002.15.07.S#-07.	5	E	28	0	28	0	DS	64	L002.15.08.S#-07.	4	E	28	0	14	0	DS
8.												Elective 11,12 - Computer security					Elective 14,15,16 - Multimedia systems																		
																			L002.15.07.S#-08.	5	D	28	0	28	0	DS	64	L002.15.08.S#-08.	4	E	28	0	14	0	DS
9.												Elective 11,12 - Concurrent and event-based programming																							
																			L002.15.07.S#-09.	5	D	28	0	28	0	DS	64								
10.												Elective 11,12 - Communications and wireless networks																							
																			L002.15.07.S#-10.	5	D	28	0	28	0	DS	64								
11.																																			
12.																																			

Nota: Din fiecare dintre grupurile de **Discipline opționale** se activează un număr de discipline în funcție de opțiunile studenților, de numărul studenților și de acoperirea financiară.

DISCIPLINE OPTIONALE (ELECTIVE DISCIPLINES)
Academic year 2015 - 2016

	1 st YEAR										2 nd YEAR																									
	SEMESTER 1					SEMESTER 2					SEMESTER 3					SEMESTER 4																				
1.	Education psychology					Pedagogy I: Theory and methodology of curriculum					Pedagogy II: -Theory and methodology of instruction, -Theory and methodology of evaluation					The didactic of the speciality																				
	L000.15.01.f9.	5	E	28	28	0	0	f	64	L000.15.02.f9.-01.	5	E	28	28	0	0	f	64	L000.15.03.f9.	5	E	28	28	0	0	f	64	L000.15.04.f9.-01.	5	E	28	28	0	0	f	64
2.						Volunteering										Volunteering																				
						L000.15.02.f9.-02.	2	C	0	0	28	0	f						L000.15.04.f9.-02.	2	C	0	0	28	0	f										
3.																Social responsibility and civic activism																				
																L000.15.04.f9.-03.	2	E	28	28	0	0	f													
total/sem.	ore: 56		VPI: 64		credite: 5		evaluări: 1E		ore: 84		VPI: 64		credite: 7		evaluări: 1E, 1C		ore: 56		VPI: 64		credite: 5		evaluări: 1E		ore: 140		VPI: 64		credite: 9		evaluări: 2E, 1C					
total/săpt.	ore: 4				din care: 2 2 0 0 (c, s, l, p)		ore: 6				din care: 2 2 2 0 (c, s, l, p)		ore: 4				din care: 2 2 0 0 (c, s, l, p)		ore: 10				din care: 4 4 2 0 (c, s, l, p)													

	3 th YEAR										4 th YEAR																									
	SEMESTER 5					SEMESTER 6					SEMESTER 7					SEMESTER 8																				
1.	Computer assisted instruction					Classroom management										Volunteering																				
	L002.15.05.f9.-01.	2	C	14	14	0	0	f	24	L002.15.06.f9.-01.	3	E	14	14	0	0	f	40						L002.15.08.f7.	2	C	0	0	28	0	f					
2.	Pedagogical practice in compulsory secondary school (1)					Pedagogical practice in compulsory secondary school (2)																														
	L002.15.05.f9.-02.	3	C	0	0	0	42	f	26	L002.15.06.f9.-02.	2	C	0	0	0	36	f	6																		
3.						Volunteering																														
						L002.15.06.f9.-03.	2	C	0	0	28	0	f																							
total/sem.	ore: 70		VPI: 50		credite: 5		evaluări: 2C		ore: 92		VPI: 46		credite: 7		evaluări: 1E, 2C		ore: 0		VPI: 0		credite: 0		evaluări:		ore: 28		VPI: 0		credite: 2		evaluări: 1C					
total/săpt.	ore: 5				din care: 1 1 0 3 (c, s, l, p)		ore: 7				din care: 1 1 2 3 (c, s, l, p)		ore: 0				din care: 0 0 0 0 (c, s, l, p)		ore: 2				din care: 0 0 2 0 (c, s, l, p)													

Nume disciplina																													
Cod	nc	FE	c	s	l	p	CF	VPI																					
<p>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=colocviu P - E - proiect autonom cu examinare ca si in cazul disciplinelor cu examen P - D - proiect autonom cu examinare ca si in cazul disciplinelor cu evaluare distribuita c=nr.ore curs/semestru (*) - discipline optionale activate in anul universitar 2014 / 2015</p>																													
<p>s=nr.ore seminar l=nr.ore laborator p=nr.ore proiect CF=categorii formative careia ii apartine disciplina CF ∈ {DC, DD, DF, DS} DC - disciplina complementara DD - disciplina in domeniu DF - disciplina fundamentala DS - disciplina de specialitate VPI = volum de ore necesar pregatirii individuale Exemplu</p>																													
<table border="1"> <thead> <tr> <th colspan="10">Analiza matematica</th> </tr> <tr> <th>Cod</th> <th>4</th> <th>E</th> <th>28</th> <th>28</th> <th>0</th> <th>0</th> <th>DF</th> <th>60</th> <th></th> </tr> </thead> </table>										Analiza matematica										Cod	4	E	28	28	0	0	DF	60	
Analiza matematica																													
Cod	4	E	28	28	0	0	DF	60																					