

Domeniul fundamental de ierarhizare (DFI): STIINTE INGINERESTI

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

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

Domeniul de licență (DL): COMPUTERS AND INFORMATION TECHNOLOGY

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

**PLAN DE ÎNVĂȚĂMÂNT**  
An universitar 2014 - 2015

	ANUL I					ANUL II																										
	SEMESTRUL 1		SEMESTRUL 2			SEMESTRUL 3		SEMESTRUL 4																								
1.	Mathematical analysis					Computer assisted mathematics			System theory and automatization		Microeconomics																					
	5	E	28	28	0	0	DF	57	5	D	28	0	28	0	DF	57	4	D	28	0	28	0	DD	42	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																					
	5	E	28	28	0	0	DF	60	5	E	42	28	0	0	DF	46	4	E	28	0	28	0	DD	44	5	E	28	0	28	0	DD	70
3.	Physics					Electrical engineering fundamentals			Object-oriented programming		Software engineering fundamentals																					
	4	D	28	14	14	0	DF	38	4	E	28	14	14	0	DF	38	5	E	35	0	28	0	DD	64	5	E	28	0	28	14	DD	54
4.	Computer programming					Electronic devices			Measurement principles, techniques and devices		Databases																					
	5	E	42	0	28	0	DF	50	4	D	28	0	14	0	DF	52	4	D	28	14	14	0	DD	38	4	D	28	0	28	0	DD	42
5.	Logic and discrete structure					Programming techniques			Computer architecture		Computer organization																					
	4	E	28	28	0	0	DF	41	4	E	28	0	28	0	DF	38	4	E	28	0	28	0	DD	42	5	E	28	0	28	14	DD	53
6.	Fundamentals of mechanical engineering and robotics					Digital logic			Digital circuits and signals		Integrated circuits / Fundamental concepts of programming languages																					
	3	D	28	0	14	0	DF	26	4	E	28	0	28	0	DD	38	4	E	35	0	28	0	DD	31	4	E	28	0	28	0	DD	38
7.	Foreign languages					Foreign languages			Communication		Culture and civilization																					
	2	D	0	28	0	0	DC	20	2	D	0	28	0	0	DC	20	3	D	28	14	0	0	DC	30	2	D	14	14	0	0	DC	18
8.	Sports					Sports			Sports		Sports																					
	2	D	0	28	0	0	DC	20	2	D	0	14	0	0	DC	20	2	D	0	14	0	0	DC	34	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																					
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)				

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

**PLAN DE ÎNVĂȚĂMÂNT**  
An universitar 2014 - 2015

	ANUL III				ANUL IV																											
	SEMESTRUL 5		SEMESTRUL 6		SEMESTRUL 7		SEMESTRUL 8																									
1.	Computer networks		Artificial intelligence fundamentals		Elective 1 (package 7L1.1.1 or 7L1.1.2 or 7L1.2.1 or 7L1.2.2)		Elective 1 (package 8L1.1.1 or 8L1.1.2 or 8L1.2.1 or 8L1.2.2)																									
	4	E	28	0	28	0	DD	38	4	E	28	0	14	0	DS	52																
2.	Computer engineering fundamentals		Embedded systems		Elective 2 (package 7L2.1 or 7L1.1.1 or 7L1.1.2 or 7L1.2.1 or 7L1.2.2)		Elective 2 (choose from 8L2 or 8L1.1.1 or 8L1.1.2 or 8L1.2.1 or 8L1.2.2)																									
	4	E	28	0	14	14	DD	38	4	E	28	0	14	0	DS	52																
3.	Operating systems		Computer graphics		Elective 3 (package 7L2.1 or 7L1.1.1 or 7L1.1.2 or 7L1.2.1 or 7L1.2.2)		Elective 3 (choose from 8L2 or 8L1.1.1 or 8L1.1.2 or 8L1.2.1 or 8L1.2.2)																									
	4	E	28	0	28	0	DD	38	4	E	28	0	14	0	DS	52																
4.	Digital microsystems design		Digital signal processing / Compilation techniques		Elective 4 (package 7L2.1 or 7L1.1.1 or 7L1.1.2 or 7L1.2.1 or 7L1.2.2)		Elective 4 (choose from 8L2 or 8L1.1.1 or 8L1.1.2 or 8L1.2.1 or 8L1.2.2)																									
	4	E	28	0	14	14	DD	38	4	E	28	0	14	0	DS	52																
5.	Management and marketing		Elective 1 (package 6L1.1.1 or 6L1.1.2 or 6L1.2.1 or 6L1.2.2)		Elective 5 (choose from 7L2.2)		Development of diploma thesis Practical stage (3 weeks X 28h)																									
	4	D	28	28	0	0	DF	18	4	D	28	0	28	0	DS	38	5	D	28	0	28	0	DS	64	1	C			84			
6.	Elective 1 (package 5L1.1 or 5L1.2)		Elective 2 (choose from 6L2 or 6L1.1.1 or 6L1.1.2 or 6L1.2.1 or 6L1.2.2)		Elective 6 (choose from 7L2.2)		Development of diploma thesis Design activity (4 weeks X 28h)																									
	4	D	28	0	28	0	DS	38	4	D	28	0	28	0	DS	38	5	D	28	0	28	0	DS	64	3	C			112			
7.	Elective 2 (choose from 5L2 or 5L1.1 or 5L1.2)				Diploma project		Diploma exam*																									
	4	D	28	0	28	0	DS	38																	10	E						
8.	Applied activities (45 hours)		Applied activities (45 hours)		Optional - choose from other specialization's curricula		Optional - choose from other specialization's curricula																									
	2	C						60	6	C							180															
9.	Optional - choose from other specialization's curricula		Optional - choose from other specialization's curricula																													
total/sem.	ore:	<b>392</b>		VPI:	<b>306</b>		ore:	<b>336</b>		VPI:	<b>412</b>		ore:	<b>364</b>		VPI:	<b>384</b>		ore:	<b>364</b>		VPI:	<b>208</b>									
	credite:	<b>30</b>		evaluări:	4E, 3D, 1C		credite:	<b>30</b>		evaluări:	fm n		credite:	<b>30</b>		evaluări:			credite:	<b>30</b>		evaluări:	5E, 1C									
total/săpt.	ore:	<b>28</b>					ore:	<b>24</b>					ore:	<b>26</b>					ore:	<b>26</b>												
	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)				

\*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)**  
An universitar 2014 - 2015

	ANUL III										ANUL IV																					
	SEMESTRUL 5					SEMESTRUL 6					SEMESTRUL 7					SEMESTRUL 8																
1.	Elective 5L1.1 - Large scale integrated circuits					Elective 6L1.1.1 - Microprocessor systems					Elective 7L1.1.1 - Peripheral interfaces and devices					Elective 8L1.1.1 - Reconfigurable computing																
	4	D	28	0	28	0	DS	38	4	D	28	0	28	0	DS	38	5	E	28	0	28	0	DS	64	4	E	28	0	14	0	DS	52
2.	Elective 5L1.2 - Software systems design					Elective 6L1.1.2 - Computer engineering					Elective 7L1.1.2 - Digital telecommunication					Elective 8L1.1.2 - Computer systems reliability																
	4	D	28	0	28	0	DS	38	4	D	28	0	28	0	DS	38	5	E	28	0	28	0	DS	64	4	E	28	0	14	0	DS	52
3.	Elective 5L2 - WEB application design					Elective 6L1.2.1 - Complexity and computability					Elective 7L1.2.1 - Modeling and simulation					Elective 8L1.2.1 - Expert systems																
	4	D	28	0	28	0	DS	38	4	D	28	0	28	0	DS	38	5	E	28	0	28	0	DS	64	4	E	28	0	14	0	DS	52
4.						Elective 6L1.2.2 - Design and architecture of complex software systems					Elective 7L1.2.2 - Software verification and validation					Elective 8L1.2.2 - Software project management																
									4	D	28	0	28	0	DS	38	5	E	28	0	28	0	DS	64	4	E	28	0	14	0	DS	52
5.											Elective 7L2.1 Mobile systems and applications					Elective 8L2 - Data mining																
																5	E	28	0	28	0	DS	64	4	E	28	0	14	0	DS	52	
6.											Elective 7L2.1 - Computer aided design					Elective 8L2 - Fuzzy logic and applications																
																5	E	28	0	28	0	DS	64	4	E	28	0	14	0	DS	52	
7.											Elective 7L2.1 - Database design					Elective 8L2 - Distributed Programming																
																5	E	28	0	28	0	DS	64	4	E	28	0	14	0	DS	52	
8.											Elective 7L2.2 - Computer security					Elective 8L2 - Multimedia systems																
																5	D	28	0	28	0	DS	64	4	E	28	0	14	0	DS	52	
9.											Elective 7L2.2 - Concurrent and event-based programming																					
																5	D	28	0	28	0	DS	64									
10.											Elective 7L2.2 - Communications and wireless networks																					
																5	D	28	0	28	0	DS	64									
11.																																
12.																																

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

**DISCIPLINE FACULTATIVE (OPTIONAL DISCIPLINES)**  
An universitar 2014 - 2015

		ANUL I								ANUL II																										
		SEMESTRUL 1				SEMESTRUL 2				SEMESTRUL 3				SEMESTRUL 4																						
1.	Education psychology	5	E	28	28	0	0	DC	64	Pedagogy I: Theory and methodology of curriculum	5	E	28	28	0	0	DC	64	Pedagogy II: -Theory and methodology of instruction, -Theory and methodology of evaluation	5	E	28	28	0	0	DC	64	The didactic of the speciality	5	E	28	28	0	0	DC	64
2.										Volunteering	2	C	0	0	28	0												Volunteering	2	C	0	0	28	0		
3.																												Social responsibility and civic activism	2	E	28	28	0	0		
total/sem.	ore: 56 credite: 5	VPI: 64 evaluări: 1E		ore: 84 credite: 7		VPI: 64 evaluări: 1E		ore: 56 credite: 5		VPI: 64 evaluări: 1E		ore: 140 credite: 9		VPI: 64 evaluări: 1E																						
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)																						

		ANUL III								ANUL IV																										
		SEMESTRUL 5				SEMESTRUL 6				SEMESTRUL 7				SEMESTRUL 8																						
1.	Computer assisted instruction	2	C	14	14	0	0	DC	24	Classroom management	3	E	14	14	0	0	DC	40										Volunteering	2	C	0	0	28	0		
2.	Pedagogical practice in compulsory secondary school (1)	3	C	0	0	0	42	DC	26	Pedagogical practice in compulsory secondary school (2)	2	C	0	0	0	36	DC	6																		
3.										Volunteering	2	C	0	0	28	0																				
total/sem.	ore: 70 credite: 5	VPI: 50 evaluări: 2C		ore: 92 credite: 7		VPI: 46 evaluări: 2E, 1C		ore: 0 credite: 0		VPI: 0 evaluări:		ore: 28 credite: 2		VPI: 0 evaluări:																						
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)																						

**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**=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  
**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**

Analiza matematica									
Cod	4	E	28	28	0	0	DF	60	

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