

CURRICULUM **
Year of study I

Code	Disciplines*	Type	Sem. I [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
STII-0639	Programming fundamentals	FD	2	-	3	-	70	Ex	7	105	
STII-0258	Computer systems architecture	FD	2	-	2	-	56	Ex	5	69	
STII-0010	Mathematical analysis I	CD	2	2	-	-	56	Cv	5	69	
STII-0712	Algebraic foundations of computer science	FD	2	2	-	-	56	Ex	5	69	
STII-0713	Mathematical and computational logic	FD	2	2	-	-	56	Ex	6	94	
STII-0465	English I	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		10	7	5	-	308		30	442	
STII-0651	Sport I	CD	-	1	-	-	14	A/R	3	61	

Code	Disciplines*	Type	Sem. II [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
STII-0276	Operating systems	FD	2	-	2	-	56	Ex	6	94	
STII-0272	Object oriented programming	SD	2	-	3	-	70	Ex	7	105	
STII-0714	Fundamental algorithms	FD	2	-	2	-	56	Ex	5	69	
STII-0256	Graph algorithms	FD	2	2	-	-	56	Ex	5	69	
STII-0076	Computational geometry	FD	2	2	-	-	56	Ex	5	69	
STII-0466	English II	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		10	5	7	-	308		30	442	
STII-0652	Sport II	CD	-	1	-	-	14	A/R	3	61	

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Year of study II

Code	Disciplines*	Type	Sem. III [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
STII-0715	Advanced programming methods	SD	2	-	3	-	70	Ex	6	80	
STII-0716	Cryptography	SD	2	-	2	-	56	Cv	5	69	
STII-0259	Databases	FD	2	-	2	-	56	Ex	6	94	
STII-0274	Computer Networking	FD	2	-	2	-	56	Ex	6	94	
STII-0055	Probabilities and statistics	CD	2	2	-	-	56	Ex	5	69	
STII-0467	English III	CD	-	1	-	-	14	Vp	2	36	
TOTAL			10	3	9	-	308		30	442	
STII-0653	Sport III	CD	-	1	-	-	14	A/R	3	61	

Code	Disciplines*	Type	Sem. IV [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
STII-0717	Formal languages and compilers	FD	2	2	-	-	56	Ex	4	44	
STII-0275	Database management systems	SD	2	-	2	-	56	Ex	4	44	
STII-0263	WEB application development	SD	2	-	3	-	70	Ex	5	55	
STII-0719	IT systems security	FD	2	-	2	-	56	Ex	5	69	
STII-0287	Project management	SD	2	-	2	-	56	Ex	4	44	
STII-0468	English IV	CD	-	1	-	-	14	Vp	1	11	
STII-0718	Specialization practice	SD	-	-	-	-	120	Cv	6	30	
TOTAL			10	3	9	-	428		29	297	
OBLIGATORII OPȚIONALĂ											
STII-0765	Academic Ethics and Integrity	CD	1	-	-	-	14	Cv	1	11	
STII-0794	Antreprenorship in Natural Sciences Domain	CD	1	-	-	-	14	Cv	1	11	
TOTAL			1	-	-	-	14		1	11	
STII-0654	Sport IV	CD	-	1	-	-	14	A/R	3	61	

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Year of study III

Code	Disciplines*	Type	Sem. V [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
STII-0071	Numerical calculus	SD	2	-	2	-	56	Ex	6	94	
STII-0267	Artificial intelligence	FD	2	-	2	-	56	Ex	7	119	
TOTAL			4	-	4	-	112		13	213	
OBLIGATORII OPd'z'IONALE											
PACHET 1											
STII-0721	Modelling and simulation	SD	2	-	3	-	70	Cv	5	55	
STII-0265	Computer graphics	SD	2	-	3	-	70	Cv	5	55	
PACHET 2											
STII-0277	Distributed operating systems	SD	2	-	2	-	56	Ex	5	69	
STII-0722	Software engineering	SD	2	-	2	-	56	Ex	5	69	
PACHET 3											
STII-0723	Programming environments and tools	SD	2	-	3	-	70	Ex	7	105	
STII-0724	Mobile applications development	SD	2	-	3	-	70	Ex	7	105	
TOTAL			6	-	8	-	196		17	229	
FACULTATIVE											
STII-0725	Computing systems history	CD	1	1	-	-	28	Cv	2	22	
STII-0792	Life skills	CD	1	-	-	-	14	Vp	1	11	
STII-0793	Career Coaching	CD	1	-	-	-	14	Vp	1	11	

Code	Disciplines*	Type	Sem. VI [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
STII-0720	Parallel, concurrent and distributed programming	SD	2	-	3	-	60	Ex	6	90	
STII-0413	Elaboration of degree theses	SD	-	-	4	-	48	A/R	6	102	
TOTAL			2	-	7	-	108		12	192	
OBLIGATORII OPd'z'IONALE											
PACHET 1											
STII-0616	Functional programming	SD	2	-	3	-	60	Ex	6	90	
STII-0279	Advanced programming techniques	SD	2	-	3	-	60	Ex	6	90	
PACHET 2											
STII-0727	Professional ethics and intellectual property (legal informatics)	CD	2	-	2	-	48	Cv	6	102	
STII-0728	Professional and scientific editing and communication	CD	2	-	2	-	48	Cv	6	102	
PACHET 3											
STII-0613	Optimization techniques	SD	2	-	2	-	48	Ex	6	102	
STII-0729	Automatic learning	SD	2	-	2	-	48	Ex	6	102	
TOTAL			6	-	7	-	156		18	294	

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VIII. DISTRIBUTION OF CREDITS ACCORDING TO COMPETENCES (TABLES NRQHE /ARACIS - Grid 1 *)

No.	Discipline**	Sem.	Number of credits	Professional Competences						Transversal Competences		
				C1	C2	C3	C4	C5	C6	CT1	CT2	CT3
1.	Programming fundamentals	I	7	5	2							
2.	Computer systems architecture	I	5	2			3					
3.	Mathematical analysis I	I	5				5					
4.	Algebraic foundations of computer science	I	5				5					
5.	Mathematical and computational logic	I	6				6					
6.	English I	I	2								1	1
7.	Sport I	I	3								3	
8.	Operating systems	II	6						6			
9.	Object oriented programming	II	7	7								
10.	Fundamental algorithms	II	5	3	2							
11.	Graph algorithms	II	5	3	2							
12.	Computational geometry	II	5						6			
13.	English II	II	2								1	1
14.	Sport II	II	3								3	
15.	Advanced programming methods	III	6	6								
16.	Cryptography	III	5						5			
17.	Databases	III	6					6				
18.	Computer Networking	III	6						6			
19.	Probabilities and statistics	III	5		2	3						
20.	English III	III	2								1	1
21.	Sport III	III	3								1	
22.	Formal languages and compilers	IV	4				4					
23.	Database management systems	IV	4					4				
24.	WEB application development	IV	5		3			2				
25.	IT systems security	IV	5						5			
26.	Project management	IV	4		4							
27.	English IV	IV	1								1	
28.	Specialization practice	IV	6							3	3	
29.	Sport IV	IV	3								3	
30.	Academic Ethics and Integrity	IV	1								1	
31.	Antreprenorship in Natural Sciences Domain	IV	1								1	
32.	Numerical calculus	V	6			4	2					
33.	Artificial intelligence	V	7			4	3					
34.	Modelling and simulation	V	5				5					
35.	Computer graphics	V	5		1	4						
36.	Distributed operating systems	V	5						5			
37.	Software engineering	V	5		2	3						
38.	Programming environments and tools	V	7	3	2	2						
39.	Mobile applications development	V	7	3	2	2						
40.	Computing systems history	V	2									2
41.	Life skills	V	1									1
42.	Career Coaching	V	1									1
43.	Parallel, concurrent and distributed programming	VI	6	4	2							
44.	Elaboration of degree theses	VI	6							3		3
45.	Functional programming	VI	6	6								
46.	Advanced programming techniques	VI	6	6								
47.	Professional ethics and intellectual property (legal informatics)	VI	6									6
48.	Professional and scientific editing and communication	VI	6									6
49.	Optimization techniques	VI	6			3	3					
50.	Automatic learning	VI	6			3	3					

Legendă: C1 - C5 sau C6 - Competențe profesionale; CT1 - CT3 - Competențe transversale

* Se va utiliza Grila 1 (G1) care prezintă variantele: G1L și G1M corepunzătoare ciclurilor de studii de licență și masterat, în conformitate cu Ordinul MECS nr. 5703 / 18.10.2011.

** Se vor trece toate disciplinele din Planul de învățământ al disciplinei din Planul de învățământ