



## CURRICULA

### I. SYNTHETIC DESCRIPTION OF THE PROGRAM

Denumirea programului de studii: COMPUTER SCIENCE

Domeniul fundamental: COMPUTER SCIENCE

Domeniul de licență: COMPUTER SCIENCE IN ENGLISH

Titlul absolventului: Degree in Computer Science

Durata studiilor: 3 ani, 6 semestre, 180 de credite

Forma de învățământ: full-time studies

Finalizarea studiilor: bachelor exam, 10 credits ECTS

Calificări/oportunități<sup>1</sup>: Analist/251201, Programator de sistem informatic/251204, Inginer de sistem în informatică/251203

Corespondență ESCO-08: 2511/ Systems Analyst, 2512/ Software developers

Acces în ciclul de masterat: yes

Available starting with the academic year: 2021/2022

#### Mission:

Training education specialist's degree in Computer Science, specializing in Computer Science: the study programme prepares programmers, analysts - programmers, system software engineers, computer network administrators, data base administrators, IT consultants and – provided crossing a pedagogical module training organized by the Department of Teacher Training – teachers Informatics specialization in primary and secondary education.

#### Objectives:

- Acquiring theoretical knowledge needed for the implementation of software systems and the management of computer networks;
- Practical skills training necessary to achieve software systems and network infrastructure installation and management;
- Developing communication and collaborations kills that are specific in elaboration of projects for IT & C solutions and services.

### II. COMPETENCES PROFILE OF GRADUATE

The graduates of the study program proposed for the Computer Science specialization, acquire the following professional competences:

#### A. General competences:

- written and oral professional communication capacity, including a foreign language of international use;
- learning ability and self-improvement, responsiveness to the field news;
- scientific approachability of specialized field – ability to analyze, synthesize and interpret specialized information;
- ability to work in a team; ability to work with specialists in other fields;
- ability to continue their undergraduate studies with university masters and then PhD

#### B. Specific competences in:

- the analysis and design of computer systems: the analysis and design of computer systems: conception, design, development, testing, implementation and maintenance of computer systems and programs, preparing technical documentation
- projects management for IT&C solutions, ensuring the functionality, monitoring and development of implemented IT&C solutions, personnel training for use implemented IT&C technologies, coordinating teams of specialists
- designing, installing and managing network infrastructure, ensuring the functionality of the network computers and connectivity and communication equipments, the administration of servers, interconnection of networks and access to the global Internet network, the design and implementation of network security strategy;
- development of projects for IT&C solutions and services, design/redesign of IT&C solutions for the most complex components of the system, coordination of projects and IT&C teams, performance monitoring of implemented IT&C solutions, personnel training for using IT&C technologies;
- training in information technology in primary and secondary education.

<sup>1</sup> Ocupații posibile conform COR

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**Professional competences:**

1. Programming in high-level languages
2. Development and maintenance of computer applications
3. The use of computer tools in an interdisciplinary context
4. The use of the theoretical basis of computer science and of formal models
5. Design and management of databases
6. Design and management of computer networks

**Transversal competences:**

**CT1** The application of rules for organized and efficient work, of responsible attitudes towards the scientific and didactic domain, for the creative realization of one's own potential following the principles and norms of professional ethics.

**CT2** The efficient fulfillment of activities in an interdisciplinary group and the development of skill such as empathic interpersonal communication, establishing relations and collaboration with various groups.

**CT3** The use of efficient methods and techniques for learning, scientific inquiry and development of the capacities of using knowledge, of adapting to a dynamic society and of communicate on in English.

**III. REQUIREMENTS FOR GETTING THE BACHELOR DEGREE**

Number of ECTS credits for compulsory courses: 150 (83,33%)

Number/percent of ECTS credits for elective courses: 30 (16,67%)

Number of ECTS credits for assessment exam of fundamental and speciality knowledge: 5

Number of ECTS credits for Bachelor's Paper defence and presentation: 5

**IV. THE STRUCTURE OF THE ACADEMIC YEARS (per number of weeks)**

Academic years	Didactic activities		Examination sessions				Practice	Holidays		
	Winter semester	Summer semester	Winter	Summer	Not passing exam	Winter		Winter	Between semesters	Summer
I	14	14	3	3	2	-	3	1	11	
II	14	14	3	3	2	3	3	1	8	
III	14	14*	3	3+1	-	-	3	1	-	
<b>TOTAL</b>	<b>42</b>	<b>42</b>	<b>9</b>	<b>9+1</b>	<b>4</b>	<b>3</b>	<b>9</b>	<b>3</b>	<b>19</b>	

\* 12 weeks didactic activity + 2 weeks finalizing of the bachelor's thesis

**V. NUMBER OF HOURS PER WEEKS (COMPULSORY AND COMPULSORY ELECTIVE COURSES)**

Academic years	Winter Semester					Summer Semester				
	C	S	L	P	TOTAL	C	S	L	P	TOTAL
I	10	8	4	0	22	10	6	6	0	22
II	12	2	10	0	24	12	1	10	0	23
III	10	2	10	0	22	8	3	8	4	23
<b>TOTAL</b>	<b>32</b>	<b>36</b>			<b>68</b>	<b>30</b>	<b>38</b>			<b>68</b>

**VI. CONDITII DE PROMOVARE**

According to the *Regulation on the professional activity of students* for both Cycle I - bachelor and Cycle II - master, approved by the UAB Senate on 27.11.2019, for access to the higher year, students must accumulate a minimum of 20 ECTS credits, related to the compulsory and elective courses in the curriculum.

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## VII. ELECTIVE COURSES

No.	Courses <sup>2</sup> from the elective package	Year	Semester	No. of ECTS credits	Credits weight
1	CSE206, CSE207	II	1	6	3,33%
2	CSE305, CSE306, CSE307	III	1	6	3,33%
3	CSE311, CSE312	III	2	6	3,33%
4	CSE313, CSE314	III	2	6	3,33%
5	CSE315, CSE316	III	2	6	3,33%
<b>Total</b>				<b>30</b>	<b>16,66%</b>

<sup>2</sup>The course are identified with codes

## VIII. BACHELOR'S DEGREE EXAMINATION

Drawing up the bachelor's thesis: semester 5 and 6

Bachelor's thesis refinement: 2 weeks in semester 6

Bachelor's thesis defence: June – July, September, February

Bachelor's degree examination: 10 credits

- Number of ECTS credits for assessment exam of fundamental and speciality knowledge: 5
- Number of ECTS credits for Bachelor's Paper defence and presentation: 5

The curriculum includes a package of optional courses related to the pedagogical module that are presented in the annex.

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## IX. THE STRUCTURE OF THE EDUCATION PLAN

Year I

Academic year 2021-2022

No.	Courses code	Courses	Type of courses	Number of weeks	Number of hours of learning activities										Modes of assessment	Number of ECTS credits			
					Collective activities					Individual/Independent activities									
					Didactic Activity			Practical training		Total per week		Total per semester			Thematical Training discipline		Practical Training discipline		Total per semestre
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
<b>WINTER SEMESTER</b>																			
<b>Compulsory Courses</b>																			
1	CSE 101	Computer system architecture	F	14	2	-	2	-	4	56	67	27	94	150	E	6			
2	CSE 102	Mathematical and computational logics	F	14	2	1	-	-	3	42	41	17	58	100	E	4			
3	CSE 103	Programming basics	F	14	2	-	2	-	4	56	85	34	119	175	E	7			
4	CSE 104	Linear algebra and analytical and differential geometry	C	14	2	2	-	-	4	56	49	20	69	125	C	5			
5	CSE 105	Mathematical analysis	C	14	2	2	-	-	4	56	67	27	94	150	E	6			
<b>Complementary courses</b>																			
6	CSE 106.1	English language 1	C	14	-	2	-	-	2	28	16	6	22	50	C	2			
	CSE 106.2	French language 1																	
	CSE 106.3	German language 1																	
7	CSE 107	Sport and physical education 1	C	14	-	1	-	-	1	14	-	-	-	36	50	C-A/R	2*		
<b>Total compulsory courses</b>					14	10	8	4	0	22	308	325	131	492	800	4E+3C	30		
<b>TOTAL SEMESTRE</b>					14	10	8	4	0	22	308	325	131	492	800	4E+3C	30		
<b>Facultative courses</b>																			
8	CSE 108	Embedded systems architecture	F	14	2	-	-	-	-	2	28	-	-	-	-	C	2		
<b>SUMMER SEMESTER</b>																			
<b>Compulsory courses</b>																			
1	CSE 109	Data structures	F	14	2	2	2	-	6	84	75	41	116	200	E	8			
2	CSE 110	Operating systems	F	14	2	-	2	-	4	56	85	34	119	175	E	7			
3	CSE 111	Graph algorithms	F	14	2	-	2	-	4	56	85	34	119	175	E	7			
4	CSE 112	Probabilistic and mathematical statistics	F	14	2	1	-	-	3	42	67	41	108	150	E	6			
<b>Complementary courses</b>																			
6	CSE114.1	English language 2	C	14	-	2	-	-	2	28	14	12	22	50	C	2			
	CSE114.2	French language 2																	
	CSE114.3	German language 2																	
7	CSE 115	Sport and physical education 2	C	14	-	1	-	-	1	14	-	-	-	36	50	C-A/R	2*		
<b>Total compulsory courses</b>					14	8	6	6	0	20	280	326	162	484	800	4E+2C	30		
<b>TOTAL SEMESTER</b>					14	8	6	6	0	20	280	326	162	484	800	4E+2C	30		
<b>Facultative courses</b>																			
8	CSE 116	Computational geometry	F	14	2	1	1	-	4	56	-	-	-	-	-	-	-	4	
<b>Compulsory study programme</b>					28	18	14	10	0	42	588	651	293	976	1600	8E+5C	60		

The abbreviation used in the table: E – final exam; C – coloqui examination; A/R –accepted/rejected

\*In the total number of credits per semester is not included the sport and physical education

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No.	Courses code	Courses	Type of courses	Number of weeks	Number of hours of learning activities												Modes of assessment	Number of ECTS credits		
					Collective activities						Individual/Independent activities									
					Didactic Activity				Total per week	Total per semester	Thematical Training discipline	Practical Training discipline	Total per semester							
1	2	3	4	5	6	7	8	9					Total number of hour per semestre							
1	CSE201	Databases	F	14	2	-	2	-	4	56	49	20	69	125	E	5				
2	CSE202	Fundamental algorithms	F	14	2		2	-	4	56	49	20	69	125	E	5				
3	CSE203	Computer networks	F	14	2	-	2	-	4	56	49	20	69	125	E	5				
4	CSE204	Object oriented programming	S	14	2	-	2	-	4	56	49	20	69	125	E	5				
5	CSE205	Differential and partial derivates equations	C	14	2	2	-	-	4	56	31	13	44	100	C	4				
Total compulsorycourses				14	10	2	8	0	20	280	227	93	320	600	4E+1 C	24				
Optional courses																				
6	CSE206	Mathematical software	F	14	2	-	2	-	4	56	67	27	94	150	C	6				
	CSE207	Complex analysis																		
Total optionalcourses				14	2	0	2	0	4	56	67	27	94	150	C	6				
TOTAL SEMESTER				14	12	2	10	0	24	336	294	120	414	750	4E+2C	30				
Facultative courses																				
7	CSE 208	Project	F	14	2	1	1	-	4	56	-	-	-	-	V	4				
SUMMER SEMESTER																				
Compulsory courses																				
1	CSE209	Formal language sand automata	F	14	2	-	2	-	4	56	31	13	44	100	C	4				
2	CSE210	Numerical calculus	S	14	2	-	2	-	4	56	31	13	44	100	E	4				
3	CSE211	WEB applications development	S	14	2	-	2	-	4	56	31	13	44	100	E	4				
4	CSE212	Database management systems	S	14	2	-	2	-	4	56	31	13	44	100	E	4				
5	CSE213	Advanced programming techniques	S	14	2	-	2	-	4	56	49	20	69	125	E	5				
6	CSE214	Optimization techniques	S	14	2	1	-	-	3	42	41	17	58	100	C	4				
7	CSE215	Speciality internship*	S	14	-	-	-	-	-	112	11	2	13	125	C	5				
Total compulsorycourses				14	12	1	10	0	23	434	225	91	316	750	4E+3C	30				
TOTAL SEMESTER				14	12	1	10	0	23	434	225	91	316	750	4E+3C	30				
Facultative courses																				
8	CSE 216	Embedded systems programming	F	14	2	1	1	-	4	56	-	-	-	-	V	4				
Compulsory study programme - total				28	24	3	20	0	47	770	519	211	730	1500	8E+5 C	60				

\*Speciality internships cumulative, three weeks at the end of summer semester weeks (112 hours) or during the academic year



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No.	Courses code	Courses	Type of courses	Number of weeks	Number of hours of learning activities												Modes of assessment	Number of ECTS credits		
					Collective activities						Individual/Independent activities									
					Didactic Activity						Total per week	Total per semester	Thematical Training discipline	Practical Training discipline	Total per semeste					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
<b>WINTER SEMESTER</b>																				
<b>COMPULSORY COURSES</b>																				
1	CSE301	Artificial intelligence	F	14	2	-	2	-	4	56	67	27	94	150	C	6				
2	CSE302	Computer graphics	S	14	2	-	2	-	4	56	67	27	94	150	E	6				
3	CSE303	Software engineering	S	14	2	-	2	-	4	56	67	27	94	150	E	6				
4	CSE304	Development of mobile application	S	14	2	-	2	-	4	56	67	27	94	150	E	6				
<b>Total compulsorycourses</b>				14	8	-	8	0	16	224	268	108	376	600	<b>3E+1 C</b>	<b>24</b>				
<b>Complementary courses</b>																				
5	CSE305	Programming environments and tools	S	14	2	2	2	-	6	84	47	19	66	150	E	6				
	CSE306	Multimedia techniques and technologies																		
	CSE307	Ethics and academic integrity																		
<b>Total complementary courses</b>				14	2	2	2	0	6	84	47	19	66	150	<b>1E</b>	<b>6</b>				
<b>TOTAL SEMESTER</b>				14	10	2	10	0	22	308	315	127	442	750	<b>4E+1C</b>	<b>30</b>				
<b>Facultative courses</b>																				
6	CSE 308	Intelligent robots	C	14	2	1	1	-	4	56	-	-	-	-	V	4				
<b>SUMMER SEMESTER</b>																				
<b>Compulsory courses</b>																				
1	CSE309	Modeling and simulation	S	12	2	-	2	-	4	48	73	29	102	150	E	6				
2	CSE310	Practice for the development of the bachelor's thesis	S	12	-	-	-	4	4	48	73	29	102*	150	C	6				
<b>Total compulsorycourses</b>				12	2	0	2	4	8	96	146	58	204	300	<b>1E+1C</b>	<b>12</b>				
<b>Optional courses</b>																				
3	CSE311	Machine learning	S	12	2	1	2	-	5	60	64	26	90	150	E	6				
	CSE312	Evolutionary computing																		
4	CSE313	Computational intelligence	S	12	2	-	2	-	4	48	73	29	102	150	E	6				
	CSE314	Neuronal networks and applications																		
5	CSE315	Information systems security	F	12	2	2	2	-	6	72	56	22	78	150	C	6				
	CSE316	Automata, computing and complexity																		
<b>Total optional courses</b>				12	6	3	6	0	15	180	193	77	270	450	<b>2E+1 C</b>	<b>18</b>				
<b>TOTAL SEMESTER</b>				12	8	3	8	4	23	276	339	135	474	750	<b>3E+2C</b>	<b>30</b>				
<b>Facultative courses</b>																				
6	CSE 317	IT projects management	C	12	-	1	-	-	1	12	-	-	-	-	V	2				
<b>Compulsory study programme - total</b>				26	19	3	18	4	44	584	654	262	916	1500	<b>7E+3 C</b>	<b>60</b>				

\* Independent activities take place cumulatively in the last 2 weeks of the semester



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**X. The structure of the number of hours for didactic activities according to the type of course imposed with a view to ensuring the training**

Courses	Year I Winter semester	Year I Summer semester	Year II Winter semester	Year II Summer semester	Year III Winter semester	Year III Summer semester	Total without speciality internship	Percentage	Total with internship speciality (112 hours - second year, Summer semester)	Percentage with internship ( 112 hours)
Compulsory courses	308	280	280	322	224	96	1510	82,51 (70-83%)	1622	73,12%
Optional compulsory courses	-	-	56	-	84	180	320	17,49 (>17)	320	14,43%
<b>Total compulsory and optional compulsory courses</b>	<b>308</b>	<b>280</b>	<b>336</b>	<b>322</b>	<b>308</b>	<b>276</b>	<b>1830</b>	<b>100</b>	<b>1942</b>	<b>87,55%</b>
Other facultative course	28	56	56	56	56	24	276	-	276	12,45%
<b>Total facultative course</b>	<b>28</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>24</b>	<b>276</b>	<b>-</b>	<b>276</b>	<b>12,45%</b>
<b>TOTAL</b>	<b>336</b>	<b>336</b>	<b>392</b>	<b>378</b>	<b>364</b>	<b>300</b>	<b>2106</b>	<b>-</b>	<b>2218</b>	<b>100,00%</b>

**XI. Number of hours for the complete bachelor cycle, without facultative courses**

Study year	Semester	Number of weeks	Number of hours/weeks	Number of hours Speciality internship	Total hours (without internship)	Total hours (with internship)
I	1	14	22		308	308
i	2	14	22		280	280
II	1	14	24		336	336
II	2	14	23	112	322	434
III	1	14	22		308	308
III	2	12	23		276	276
<b>Total</b>				<b>112</b>	<b>1830</b>	<b>1942</b>



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## XII. ARACIS's specific standards

### 1. General structure

Courses	Year I, Winter semester	Year I, Summer semester	Year II, Winter semester	Year II, Summer semester	Year III, Winter semester	Year III, Summer semester	Total without internship	Total with internship	Percentage without internship	Percentage with internship
Fundamental courses	154	238	224	56	56	72	800	800	43.72%	41.19% (35-45%)
Specializationcourses	-	-	56	266	252	204	778	890	42.51%	45.83% (35-50%)
Complementary courses	154	42	56	-	-	-	252	252	13.77%	12.98% (10-20%)
<b>TOTAL</b>							<b>1830</b>	<b>1942</b>	<b>100,00%</b>	<b>100,00%</b>

### 2. Report course hours/applicative hours, per total compulsory and optional compulsory courses

Activities	Year I Winter semester	Year I Summer semester	Year II Winter semester	Year II Summer semester	Year III Winter semester	Year III Summer semester	Total without internship	Total with internship (112 hours)
Courses	140	112	168	168	140	96	824	964
Seminars, iabs, practice	168	168	168	154	168	132+48*	958	1006

The report between applicative hours and course hours is 1,12 (this report is calculated without the speciality internship hours and those related to the development of the bachelor's thesis)

### 3. Number of courses

Courses	Fundamental compulsory	Speciality compulsory	Complementary compulsory	Total
Total number of complementary courses	14	15	7	36

### 4. The share of courses in other areas of science, in all complementary and optional compulsory courses

Courses	Total number of hours	Percentage
Other fields of science	84	26%
Total number of complementary courses	320	100%

### 5. The share of credits in the compulsory courses decided by student

Courses	Credits	Percentage
Compulsory	150	83%
Optional compulsory	30	17%
<b>Total</b>	<b>180</b>	<b>100 %</b>

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6. The share of hours in the compulsory courses decided by student

Courses	Hours	Percentage
Compulsory	1566	80.64%
Optional compulsory	376	19.36% (17-30%)
Total	1942	100,00%

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**PLAN DE ÎNVĂȚĂMÂNT**  
**al DEPARTAMENTULUI PENTRU PREGĂTIREA PERSONALULUI DIDACTIC**

pentru programul de studii psihopedagogice de 30 de credite

Nivelul I (inițial) de certificare pentru profesia didactică

- monospecializare -

Valabil începând cu anul universitar 2021-2022

Cod disciplină	Discipline de învățământ	Perioada de studiu a disciplinei			Număr de ore pe săptămână	Total ore			Forme de evaluare	Număr de credite	
		Anul	Semestrul	Număr de săptămâni		C	A	C	A		
0	1	2	3	4	5	6	7	8	9	10	11

**Curriculum-nucleu**

**Discipline de pregătire psihopedagogică fundamentală (obligatorii)**

MP1 1101	Psihologia educației	I	1	14	2	2	28	28	56	E	5
MP1 1202	Pedagogie I: - Fundamentele pedagogiei - Teoria și metodologia curriculum-ului	I	2	14	2	2	28	28	56	E	5
MP1 2303	Pedagogie II: - Teoria și metodologia instruirii - Teoria și metodologia evaluării	II	3	14	2	2	28	28	56	E	5
MP1 3607	Managementul clasei de elevi	III	6	14	1	1	14	14	28	E	3

**Discipline de pregătire didactică și practică de specialitate (obligatorii)**

MP1 2404	Didactica specializării* - Informatică	II	4	14	2	2	28	28	56	E	5
MP1 3505	Instruire asistată de calculator	III	5	14	1	1	14	14	28	C	2
MP1 3506	Practică pedagogică în învățământul preuniversitar obligatoriu (I)* - Informatică	III	5	14	-	3	-	42	42	C	3
MP1 3608	Practică pedagogică în învățământul preuniversitar obligatoriu (II)* - Informatică	III	6	12	-	3	-	36	36	C	2

**TOTAL - Nivelul I**

<b>TOTAL - Nivelul I</b>	-	-	-	-	-	140	218	358	5E+3C	30
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<b>Examen de absolvire: Nivelul I</b>	III	6	2	-	-	-	-	-	E	5
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\*La disciplinele "Didactica specializării" și "Practică pedagogică" se va completa obligatoriu precizând explicit specializarea conform art. 12, alin.4 din OMEN 4.129/16.07.2018

C = Cursuri, A = Activități aplicative (seminarii, laboratoare, practică)

**Precizări:**

- Numărul de săptămâni și, respectiv, numărul de ore pentru practica pedagogică rezultă din faptul că, potrivit standardelor actuale, ultimul semestru al studiilor universitare este de 10-12 săptămâni.
- Perioada de 2 săptămâni pentru examenul de absolvire este alocată pentru finalizarea portofoliului didactic.
- Se aplică și în cazul studiilor universitare de licență cu durata 4/5/6 ani.
- Planul de învățământ este aprobat prin OMEN nr. 3.850 / 02.05.2017, Anexa nr. 2a și OMEN nr. 4.129 / 16.07.2018.

**DECAN,**

CONF. UNIV. DR. TUDORĂȘCU MIHAELA MIRUNA

**DIRECTOR DE DEPARTAMENT**

CONF. UNIV. DR. TODORIOANA CRISTINA