

ROMÂNIA
MINISTERUL EDUCAȚIEI NAȚIONALE



UNIVERSITATEA OVIDIUS DIN CONSTANȚA
FACULTATEA DE MATEMATICĂ ȘI INFORMATICĂ
PLAN DE ÎNVĂȚĂMÂNT
(conține 11 pagini)

Domeniul fundamental: **Matematică și științe ale naturii**

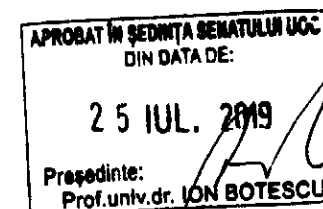
Domeniul de licență: **Informatică**

Ciclu de studii: **1**

Programul de studii (Specializarea): **Informatică în limba engleză**

Durata studiilor: **3 ani**

Forma de învățământ: **Învățământ cu frecvență (IF)**



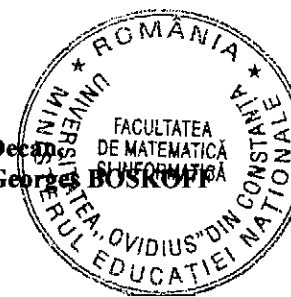
Valabil începând cu ANUL UNIVERSITAR 2019-2020

Rector,
Prof.dr. Sorin RUCIAR



Director Departament,
Conf.dr. Aurelian NICOLA

Decan,
Prof. dr. Wladimir George BOSKOP



Coordonator program,
Conf.dr. Dragoș SBURLAN

1. The purpose of the study program

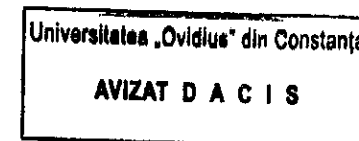
Bachelor's degree program in the field Computer Science aims the training of qualified specialists in the main fields of Information and Communications Technology, with abilities in the immediate application of the acquired knowledge to the demands of the labor market and in terms of continuous academic development by the Masters and PhD programs.

The Computer Science program purpose is to create a sound knowledge base for the attendees, allowing the continuation and the development of the 2nd and the 3rd cycle studies – the Master and the PhD programs; the main goal is to prepare specialists and scientists in the field of Information and Communications Technology.

This study program is organized according to the Bologna educational system and it is adapted to the modern changes in the European degree programs in the field of Computer Science. The relationship between student and teacher is one of partnership, where everyone takes responsibility to achieve the learning outcomes. The learning results are explained and discussed with the students in terms of their relevance for academic development.

2. Qualification, Opportunities for the inclusion in the labor market

Analyst - 251201; System Engineer in Computer Science - 251203; Programmer – 251204.

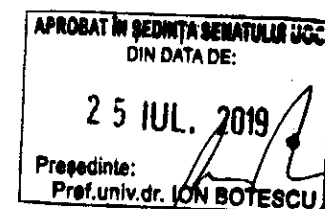


3. Admission:

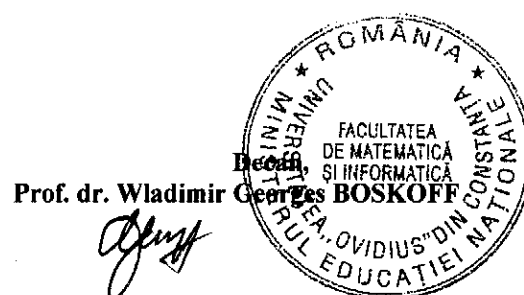
Admission to undergraduate studies is based on the methodology approved by the university Senate.

4. Education certification:

The Bachelor's degree program *Informatică în limba engleză* has provisional authorization according to AP – HG 493/2013, with the last ARACIS assessment in 24.04.2013.



Director Departament,
Conf.dr. Aurelian NICOLA



Coordonator program,
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Universitatea „Ovidius” din Constanța
AVIZAT D A C I S

FACULTATEA DE MATEMATICĂ ȘI INFORMATICĂ
Domeniul fundamental: MATEMATICĂ ȘI ȘTIINȚE ALE NATURII
Domeniul de licență: INFORMATICĂ

Specializarea: INFORMATICĂ ÎN LIMBA ENGLEZĂ
Forma de învățământ: IF
Durata studiilor: 3 ANI
Valabil începând cu ciclul de studii: 2019-2022

APROBAT ÎN ȘEDINȚA SENATULUI UGC
DIN DATA DE:

25 IUL. 2019

Președinte:
Prof.univ.dr. ION BOTESCU

PLAN DE ÎNVĂȚĂMÂNT ANUL I

No	Discipline code	*C1	**C2	Disciplines	1st Semester (14 weeks)							2nd Semester (14 weeks)							Nr. of hours per discipline		
					SI	C	S	L	P	F.V.	CR	SI	C	S	L	P	F.V.	CR	Total	Course	Applications
1.	FMI.CS.I.1.01	DC	DOB	Mathematical Analysis	69	2	2			E	5							56	28	28	
2.	FMI.CS.I.1.02	DF	DOB	Data Structures	94	2		2		E	6							56	28	28	
3.	FMI.CS.I.1.03	DF	DOB	Fundamentals of Programming	94	2		2		E	6							56	28	28	
4.	FMI.CS.I.1.04	DC	DOB	Linear Algebra	94	2		2		E	6							56	28	28	
5.	FMI.CS.I.1.05	DF	DOB	Computer Architectures	94	2		2		C	6							56	28	28	
6	FMI.CS.I.1.06-07	DC	DOP	Elective I (Foreign language)			2			C	1							28		28	
7	FMI.CS.I.1.08	DC	DOB	Sports I			1			C	1							14		14	
8	FMI.CS.I.2.09	DF	DOB	Differential and Integral Calculus								69	2	2			E	5	56	28	28
9	FMI.CS.I.2.10	DF	DOB	Fundamental Algorithms								94	2		2		E	6	56	28	28
10	FMI.CS.I.2.11	DF	DOB	Algebraical Fundamentals of Informatics								69	2		2		E	5	56	28	28
11	FMI.CS.I.2.12	DC	DOB	Analytic and Differential Geometry								69	2		2		E	5	56	28	28
12	FMI.CS.I.2.13	DF	DOB	Mathematical and Computational Logic								94	2		2		C	6	56	28	28
13	FMI.CS.I.2.14-15	DC	DOP	Elective II (Foreign language)										2			C	1	28		28
14	FMI.CS.I.2.16	DS	DOB	Specialization Practice													C	2	60		60
15	FMI.CS.I.2.17	DC	DOB	Sports II													C	1	14		14
Elective I																					
	FMI.CS.I.1.06			German Language I																	

Rector
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Conf.dr. Aurelian NICOLA

Decan
Prof. dr. Wladimir GEORGESCU

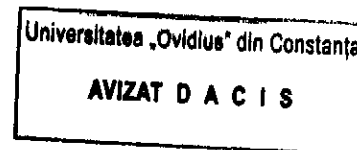
Coordonator program,
Conf.dr. Dragoș SBURLAN

	FMI.CS.I.1.07			French Language I															
	Elective II																		
	FMI.CS.I.2.14			German Language II															
	FMI.CS.I.2.15			French Language II															
Total actual hours per week (SI-self-study, C-course, S-seminar, L-laboratory, P-project) /credits per semester)					10	5	8		4/2+1	30+1		10	5	8		4/3+1	30+1		
Total	Total hours per week /Total number verification forms / credits				23/4+3/30+1					31	23/4+4/30+1					31	704	280	424

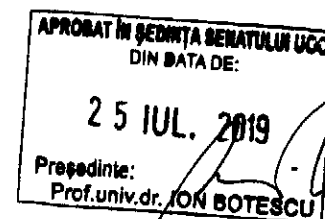
LEGENDA: *C1 = categoria formativă (criteriul conținutului), **C2 = opționalitate (criteriul obligativității), DF – discipline fundamentale, DS – discipline de specialitate, DC – discipline complementare, SI- Studiu individual, C– curs, S – seminar, L – Laborator, P – Proiect, CR – Credit, FV – formă de verificare, Ex-Examen, C-Colocviu, DOB – discipline obligatorii (impuse), DOP – discipline opționale.

$$C/A = 280/424=0.66$$

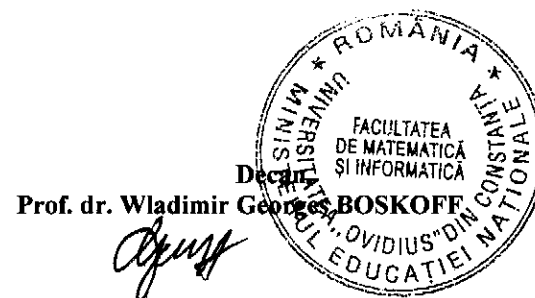
* Specialization Practice : 2 săptămâni x 30 ore/săptămână = 60 ore



Nr. crt.	Discipline facultative	Cod	Semestrul I							Semestrul II						
			SI	C	S	L	P	F.V.	CR	SI	C	S	L	P	F.V.	CR
1	Communication sciences	FMI.CS.I.1.18	44	2	2			C								
2	Scientific writing in LaTeX	FMI.CS.I.2.19								44	2	2			C	
Total ore facultative / credite pe săptămână			4							4						



Director Departament,
Conf.dr. Aurelian NICOLA



Coordonator program,
Conf.dr. Dragos SBURLAN

PLAN DE ÎNVĂȚĂMÂNT ANUL II

AVIZAT D A C I S

No	Discipline code	*C1	**C2	Discipline	1st Semester (14 weeks)							2nd Semester (12 weeks)							Nr. of hours per discipline		
					SI	C	S	L	P	F. V.	CR	SI	C	S	L	P	F. V.	CR	Total	Course	Applications
1	FMI.CS.II.1.01	DF	DOB	Graphs Algorithms	94	2		2		E	6								56	28	28
2	FMI.CS.II.1.02	DF	DOB	Operating Systems	94	2		2		E	6								56	28	28
3	FMI.CS.II.1.03	DF	DOB	Formal Languages and Compilers	94	2		2		E	6								56	28	28
4	FMI.CS.II.1.04	DS	DOB	Object Oriented Programming I	94	2		2		E	6								56	28	28
5	FMI.CS.II.1.05	DF	DOB	Computational Geometry	69	2		2		C	5								56	28	28
6	FMI.CS.II.1.06-07	DC	DOP	Elective III (Foreign Language)			2			C	1								28	0	28
7	FMI.CS.II.1.08	DC	DOB	Sports III			1			C	1								14	0	14
8	FMI.CS.II.2.09	DC	DOB	Differential and Partial Differential Equations								58	1	2			E	4	42	14	28
9	FMI.CS.II.2.10	DS	DOB	Probability Theory and Elements of Mathematical Statistics								58	1		2		E	4	42	14	28
10	FMI.CS.II.2.11	DS	DOB	Numerical Analysis								44	2		2		E	4	56	28	28
11	FMI.CS.II.2.12	DF	DOB	Databases								69	2		2		E	5	56	28	28
12	FMI.CS.II.2.13	DS	DOB	WEB Technologies								69	2		2		E	5	56	28	28
13	FMI.CS.II.2.14-15	DC	DOP	Elective IV (Foreign Language)										2			C	1	28	0	28
14	FMI.CS.II.2.16	DS	DOB	Specialization Practice											*		C	2	60	0	60
15	FMI.CS.II.2.17	DC	DOB	Sports IV										1			C	1	14	0	14
16	FMI.CS.II.2.18-23	DS	DOP	Elective V								97	1		1		C	5	28	14	14
Elective III																					
	FMI.Info.II.1.06			Limba germană III																	
	FMI.Info.II.1.07			Limba franceză III																	
Elective IV																					
	FMI.Info.II.2.14			Limba germană IV																	
	FMI.Info.II.2.15			Limba franceză IV																	
Elective V																					
	FMI.CS.II.2.18			Calculability and Computations																	

APROBAT ÎN ȘEDINȚA SEMESTRIALĂ ÎN
DIN DATA DE:

25 IUL. 2019

Președintele
Prof. univ. dr. ION BOTESCU

Rector,
Prof.dr. Sorin RUCINA

Director Departament,
Conf.dr. Aurelian NICOLA

Decan,
Prof. dr. Wladimir Georges BOSKOFF

Coordonator program,
Conf.dr. Dragoș SBURLAN

FMI.CS.II.2.19			Multimedia Techniques																
FMI.CS.II.2.20			Visual Programming Environments																
FMI.CS.II.2.21			Software Testing and Validation																
FMI.CS.II.2.22			Object Oriented Programming II																
FMI.Info.II.2.23			Ethics and academic deontology																
Total actual hours per week				10	3	10		4/ 2+ 1	30+ 1		9	5	9		4+1/ 2+2	30+ 1			
(SI-self-study, C-course, S-seminar, L-laboratory, P-project) /credits per semester)																			
Total	Total hours per week /Total number verification forms / credits				23/4+3/30+1				31		23/5+4/30+1				31	704	266	438	

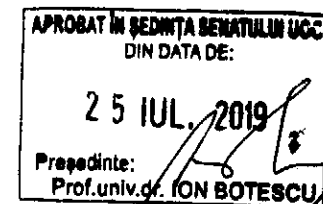
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* Specialization Practice : 2 săptămâni x 30 ore/săptămână = 60 ore

$$C/A = 266/438=0.60$$



Nr. crt.	Discipline facultative	Cod	Semestrul I							Semestrul II						
			SI	C	S	L	P	F.V.	CR	SI	C	S	L	P	F.V.	CR
1	Mobile application development	FMI.CS.II.1.24	69	2	2			E	2							
2	Introduction to cryptography	FMI.CS.II.2.25								69	2	2			E	
Total ore facultative / credite pe săptămână			4						5	4						5

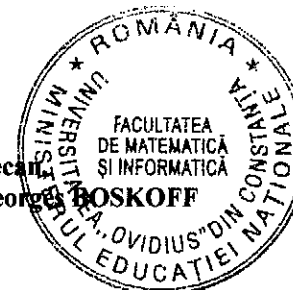


Rector,
Prof.dr. Sorin RUGINA



Director Departament,
Conf.dr. Aurelian NICOLA

Decan,
Prof. dr. Wladimir George BOSKOFF



Coordonator program,
Conf.dr. Dragoș SEURLAN



MINISTERUL EDUCAȚIEI ȘI CERCETĂRII
UNIVERSITATEA „OVIDIUS” DIN CONSTANȚA
B-dul Mamaia nr. 124, 9000527 Constanța, România
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e-mail: rectorat2@univ-ovidius.ro
webpage: www.univ-ovidius.ro

Universitatea "Ovidius" din Constanța

AVIZAT D S A C

FACULTATEA DE MATEMATICĂ ȘI INFORMATICĂ
Domeniul fundamental: MATEMATICĂ ȘI ȘTIINȚE ALE NATURII
Domeniul de licență: INFORMATICĂ

Specializarea: INFORMATICA IN LIMBA ENGLEZA

Forma de învățământ: IF

Durata studiilor: 3 ANI

Valabil începând cu ciclul de studii: 2020-2023

PLAN DE ÎNVĂȚĂMÂNT ANUL III

No	Discipline code	*C1	**C2	Discipline	1st Semester (14 weeks)							2nd Semester (12+2weeks)							Nr. of hours per discipline		
					SI	C	S	L	P	F.V.	CR	SI	C	S	L	P	F.V.	CR	Total	Course	Applications
1.	FMI.CS.III.1.01	DS	DOB	Databases Management Systems	83	1		2		E	5								42	14	28
2.	FMI.CS.III.1.02	DF	DOB	Computer Networks	69	2		2		E	5								56	28	28
3.	FMI.CS.III.1.03	DS	DOB	Advanced Programming Techniques	83	1		2		E	5								42	14	28
4.	FMI.CS.III.1.04-06	DS	DOP	Elective VI	44	2		2		C	4								56	28	28
5.	FMI.CS.III.1.07-08	DS	DOP	Elective VII	69	2		2		C	5								56	28	28
6.	FMI.CS.III.1.09-11	DS	DOP	Elective VIII	94	2		2		C	6								56	28	28
7.	FMI.CS.III.2.12	DF	DOB	Artificial Intelligence								102	2		2		E	6	48	24	24
8.	FMI.CS.III.2.13	DS	DOB	Optimization Techniques								77	2		2		E	5	48	24	24
9.	FMI.CS.III.2.14	DS	DOB	Computer Graphics								77	2		2		E	5	48	24	24
10.	FMI.CS.III.2.15-17	DS	DOP	Elective IX								90	2	1	2		C	6	60	24	36
11.	FMI.CS.III.2.18-20	DS	DOP	Elective X								90	2	1	2		C	6	60	24	36
12.	FMI.CS.III.2.21	DS	DOB	Preparing Bachelor Thesis								0		2 weeks. *25 hours/week = 50 hours ¹			C	2	50	0	50
	Elective VI																				
	FMI.CS.III.1.04			Web Application Development																	
	FMI.CS.III.1.05			Image Processing																	
	FMI.CS.III.1.06			UNIX Operating Systems																	
	Elective VII																				
	FMI.CS.III.1.07			Software Engineering																	
	FMI.CS.III.1.08			Algorithmic Design and Analysis																	

Conf.univ.dr. Dan-Marcel BULESCU

Conf.dr. Aurelian NICOLA

Director Departament,
Conf.univ.dr. Crenguța Mădălina Puchianu

Coordonator program,
Conf.dr. Dragoș Florin SBURLAN

**Coordonator program,
Conf.dr. Dragos-Florin SBURLAN**



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Universitatea "Ovidius" din Constanța
AVIZAT D S A C

FACULTATEA DE MATEMATICĂ ȘI INFORMATICĂ
Domeniul fundamental: MATEMATICĂ ȘI ȘTIINȚE ALE NATURII
Domeniul de licență: **INFORMATICĂ**

Specializarea: **INFORMATICĂ IN LIMBA ENGLEZĂ**
Forma de învățământ: IF
Durata studiilor: 3 ANI

APROBAT ÎN ȘEDINȚA SENATULUI UOC
DIN DATA DE:
17 NOV 2020
Președinte SENAT

6. General balance

No.	Disciplines	Nr de ore			Total		INTERVAL CORECT
		An I	An II	An III	ore	%	
1	Mandatory (DOB)	648	620	334	1610	78.92%	70-83%
2	Electives (DOP)	56	84	288	420	21.08%	30-17%
TOTAL		704	704	622	2030	100%	100.00%
3	Optionals (free chosen)	-	-	-	-	-	

No.	Disciplines	ECTS			TOTAL		INTERVAL CORECT
		An I	An II	An III	ECTS	%	
1	Mandatory (DOB)	60	55	33	148	80.43%	(120-150) sau (70%-83%)
2	Electives (DOP)	2	7	27	36	19.57%	(30 - 60) sau (17%-30%)
TOTAL		62	62	60	184	100%	100.00%
3	Optionals (free chosen)	-	-	-	-	-	

7. General balance

Nr. crt.	Disciplines	Nr de ore			Total		INTERVAL CORECT
		An I	An II	An III	ore	%	
1	Base disciplines (DF)	392	280	104	776	38.23%	(35-45%)
2	Specialty disciplines (DS)	60	298	518	876	43.15%	(35-50%)
3	Complementary disciplines (DC)	252	126	0	378	18.62%	(10-20%)
TOTAL		704	704	622	2030	100%	100.00%

Conf.univ.dr. Dan-Marcu ELIESCU

Decan
Conf.dr. Aurelian NICOLA

Director Departament,
Conf.univ.dr. Crenguța Mădălina Puchianu

Coordonator program,
Conf.dr. Dragoș-Florin SBURLAN



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Domeniul de licență: **INFORMATICĂ**

Specializarea: **INFORMATICĂ IN LIMBA ENGLEZĂ**
Forma de învățământ: **IF**
Durata studiilor: **3 ANI**

8. Notes on the practice activity

YEAR	CONTENTS
I	Essential elements in writing an essay / report. 2. Review and the implementation of a draft. 3. Essential elements for writing the license thesis, a project or a course topics. 4. Making presentations. 5. Preparing a poster. 6. Advanced elements to elaborate documents. 7. Resources for the elaborating documents and research.
II	1. Essential elements for dissertation writing. 2. Resources for the development of documents and research. 3. Scientific writing and correct use of language. 4. Elements of style. 5. Used conventions. 6. Structure of a license thesis. 7. Presentation elements. 8. Citing the resources. 9. Review of dissertation.



9. ACADEMIC YEAR STRUCTURE

Year	Educational activities				Exams			Practice	Vacation		
	Sem. I		Sem. II		Winter	Summer	Academic debts		Winter	Spring	Summer
	weeks	hours/week	weeks	hours/week	weeks	weeks	weeks		weeks	weeks	weeks
I	14	23	14	23	3	3	2	2/28	2	1+1(Easter)	10
II	14	23	14	23	3	3	2	2/28	2	1+1(Easter)	10
III	14	22	2 (licence preparation)	22	3	3	1	2/26 licence	2	1+1(Easter)	-

Rector,
Conf.univ.dr. Dan-Maria ILIESCU

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Universitatea "Ovidius" din Constanta

AVIZAT D S A C

10. SPECIFIC CONSTRAINTS FOR ACCESS/ADMISSION, PROMOTION/EQUIVALENCE

The professional activity of students is assessed quantitatively by giving the number of credit points allocated to each subject in the curriculum and by granting a grade between 1 and 10 to the corresponding exams, seminars, homework, projects, and lab reports. The minimum grade required to pass an exam/colloquium is 5. The results/grades obtained by students during their academic training are recorded in catalogs and program registers. After the final examination and the defense of the license thesis, the students graduate and receive Bachelor Diploma and Bachelor Diploma Supplement.

11. SELECTION OF OPTIONAL DISCIPLINES BY STUDENTS.

The selection of elective disciplines is made in the last weeks of the 2nd semester, for the next academic year, with the exception of students in the first year of study, who opt at the time of enrollment in the Admission Contest. Students complete a standard application that contains the list of disciplines in the offer for the electives in both semesters of the following academic year and submit, through the head of the year, to the faculty secretariat, the completed applications. The option that meets the maximum number of requests from students will run. If there are two or more disciplines with a maximum number of applications, the faculty council will decide which discipline will run.

12. THE STRUCTURE OF THE GRADUATION EXAM:

The license exam consists of two tests, awarded with two marks:

Mark 1 (N1) is awarded for the answers to two of the 10 questions from a list of topics (the list of topics is proposed by the coordinator). Both questions are chosen by the evaluating commission from the list of topics.

Mark 2 (N2) is awarded for the content and presentation of the thesis.

Each of the two marks, N1 and N2 must be at least 5. The final mark is $N_{final} = (N1 + N2) / 2$ and it must be at least 6.

10 credits are awarded for the license exam. The student who earned 190 credits by promoting the three years of study and the license exam receives the Bachelor's degree. The student who passed the third year of study (obtained the 180 compulsory and optional credits from the curriculum), but does not endorse or promote the license exam, receives the certificate of graduation of a specialization (without the Bachelor's degree).

13. Access to further studies for personal and professional development

Graduates of the license program can enroll a master program or other postgraduate programs in the same field.

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