

UNIVERSITY OF ORADEA
FACULTY OF INFORMATICS AND SCIENCES
Cycle's Master Degree
 Master's Degree Program: **INTERNET DISTRIBUTED SYSTEMS**
 Fundamental Field: **MATHEMATICS AND NATURAL SCIENCES**
 Master's Field: **INFORMATICS**
 Secondary Master Field:
 Master Type:
 Duration of studies / no. of credits: **4 semestre/120 credits**
 Type of education: **Full-time learning (IF)**

Valid from academic year
 2024-2025
 Beginning with 1st year of study

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-0290	Security protocols for distributed systems	THD	2	-	2	-	56	Ex	8	144	
STII-0063	Computational algebra	THD	2	-	2	-	56	Ex	8	144	
STII-0783	Approximation algorithms	SYD	2	-	1	-	42	Ex	7	133	
STII-0113	Code theory	SYD	1	-	1	-	28	Cv	5	97	
STII-0766	Ethics and integrity in scientific research	SYD	1	-	-	-	14	Cv	2	36	
	TOTAL		8	-	6	-	196		30	554	

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-0264	E-learning via Internet	THD	1	-	2	-	42	Ex	7	133	
STII-0100	Fractal theory	SYD	2	-	2	-	56	Cv	8	144	
STII-0291	E-commerce security	THD	2	-	1	-	42	Ex	7	133	
STII-0595	Distributed algorithms and advanced programming techniques	THD	2	-	2	-	56	Ex	8	144	
	TOTAL		7	-	7	-	196		30	554	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
 THD - Thoroughgoing Disciplines; SYD - Synthesis Disciplines;
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
 Head of Department PhD. Sorin Nicolae MUREȘAN

RECTOR,
 Professor Dr. BUNGĂU Constantin

DEAN,
 Professor Dr. MACOCIAN Eugen-Victor

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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-0614	Methodologies for computer science systems	THD	2	-	2	-	56	Ex	8	144	
STII-0261	Relational databases	THD	2	-	2	-	56	Ex	8	144	
STII-0080	Numerical methods for operatorial equations	THD	1	-	1	-	28	Ex	5	97	
STII-0032	Operatorial researches	SYD	1	-	1	-	28	Cv	5	97	
STII-0368	Research practical period I	THD	-	-	2	-	28	Cv	4	72	
	TOTAL		6	-	8	-	196		30	554	

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-0615	Applications development on the .NET platform	THD	2	-	1	-	36	Ex	7	139	
STII-0281	Java technologies and platforms for distributed applications	THD	2	-	2	-	48	Ex	8	152	
STII-0616	Functional programming	SYD	2	-	1	-	36	Ex	7	139	
STII-0369	Research practical period II	THD	-	-	2	-	24	Cv	4	76	
STII-0637	Preparing the dissertation	THD	-	-	2	-	24	A/R	4	76	
	TOTAL		6	-	8	-	168		30	582	

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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	CT1	CT2	CT3
1.	Protocoale de securitate pentru sisteme distribuite	I	8	6	1		1			
2.	Algebră computațională	I	8		3	5				
3.	Algoritmi de aproximare	I	7	4		2	1			
4.	Teoria codurilor	I	5	3		2				
5.	Etică și integritate în cercetarea științifică	I	2						2	
6.	E-learning via Internet	II	7			2	5			
7.	Elemente de teoria fractalilor	II	8	4	2		2			
8.	Securitatea comerțului electronic	II	7	2	5					
9.	Algoritmi distribuiți și tehnici avansate de programare	II	8	3	2		3			
10.	Metodologii pentru proiectarea sistemelor informatice	III	8	2	2	2	2			
11.	Baze de date relaționale	III	8			6	2			
12.	Metode numerice pentru ecuații operatoriale	III	5	3	2					
13.	Cercetări operaționale	III	5	3			1			1
14.	Practică de cercetare I	III	4				2	2		
15.	Dezvoltarea aplicațiilor pe platforma .NET	IV	7	2	2	1		1	1	
16.	Tehnologii si platforme Java pentru aplicații distribuite	IV	8	2	3	1	2			
17.	Programare funcțională	IV	7			3	2	1	1	
18.	Practică de cercetare II	IV	4				1		1	2
19.	Elaborarea disertației	IV	4				1	1	1	1

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

* Se va utiliza Grila 1 (G1) care prezintă variantele: G1L si 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