UNIVERSITATEA "LUCIAN BLAGA" DIN SIBIU
"LUCIAN BLAGA" UNIVERSITY OF SIBIU
Facultatea de Stiinte
Faculty of Sciences
Domeniul: Matematică
Main field of study: Mathematics
Programul de master: Matematică Informatică Aplicată
Programme title: Applied Mathematics Informatics
Program de studiu de tip: Master profesional
Study programme: Professional master
Limba de predare: Română
Teaching language: Romanian

Valabil / *Valid*

începând cu anul universitar 2025-2026
starting with the academic year 2025-2026
pentru anul universitar *2025-2026*
for the academic year 2025-2026

PLAN DE ÎNVĂŢĂMÂNT / *CURRICULUM*

ANUL I/*1st YEAR*

1 Credit = 25

Centralizare/verificare/corelare cu fişele disciplinelor

Nr. Crt. / *No.*	Disciplina / *Subject*		Cod / *Code*	Semestrul 1/ *1st Semester* AI C	S	L	P	AP	N	Ver. *Eval.*	Cred. *Cred.*	Semestrul 2/ *2nd Semester* AI C	S	L	P	AP	N	Ver. *Eval.*	Cred. *Cred.*	NOSI/ sem
1.1	Generarea de soft matematic si educational si modele ale cautarii informatice / Generation of mathematical and educational software and models of informatics search		FSTI.MAI.MIA.M.SO.1.1020.E-5.1	1		2				Examen	5									83
1.2	Functii spline si aplicatii / Spline functions and applications		FSTI.MAI.MIA.M.SO.1.1200.E-5.2	1	2					Examen	5									83
1.3	Programarea retelelor de calculatoare; modelare / Computer network programming; modeling		FSTI.MAI.MIA.M.SO.1.1020.E-5.3	1		2				Examen	5									83
1.4	Geometrie computationala / Computational geometry		FSTI.MAI.MIA.M.SO.1.1100.C-5.4	1	1					Colocviu	5									97
1.5	Invatare automata / Machine learning		FSTI.MAI.MIA.M.SO.1.1010.C-5.5	1		1				Colocviu	5									97
1.6	Etica si integritate academica / Ethics and academic integrity		FSTI.MAI.MIA.M.SO.1.1000.C-5.6	1						Colocviu	5									111
2.1	Programarea aplicatiilor cu Microsoft Visual Studio C# / Applications programming using Microsoft Visual Studio C#		FSTI.MAI.MIA.M.SO.2.1200.E-5.1									1	2					Examen	5	83
2.2	Optimizare neliniara / Nonlinear optimization		FSTI.MAI.MIA.M.SO.2.1200.E-5.2									1	2					Examen	5	83
2.3	Aproximare prin operatori liniari / Approximation by linear operators		FSTI.MAI.MIA.M.SO.2.1020.E-5.3									1		2				Examen	5	83
2.4	Metode numerice in algebra liniara / Numerical methods in linear algebra		FSTI.MAI.MIA.M.SO.2.1200.C-5.4									1	2					Colocviu	5	83
2.5	Matematici experimentale / Experimental mathematics	Optional 1	FSTI.MAI.MIA.M.SA.2.1010.C-5.5									1		1				Colocviu	5	97
2.6	Coduri detectoare si corectoare de erori / Error detection and correction codes	Optional 1	FSTI.MAI.MIA.M.SA.2.1010.C-5.6																	
2.7	Practica de specialitate / Practical activity		FSTI.MAI.MIA.M.SO.2.P.C-5.7														56*	Colocviu	5	125
TOTAL				**6**	**3**	**5**				**3E+0V+ 3C+0P**	**30**	**5**	**6**	**3**				**3E+0V+ 3C+0P**	**30**	**1108**
TOTAL ORE PE SĂPTĂMÂNĂ/ *TOTAL NUMBER OF HOURS/WEEK*				**14**								**14**								
				14								**14**								
				14								**14**								

3.2.a. C	3.2.b. S	3.2.c. L	3.2.d. P	AP	N	3.3. NOSI/ sem	3.4. NOAD/ sem.	3.5. NOAD + NOSI	3.6. Cred.
1		2				83	42	125	5
1	2					83	42	125	5
1		2				83	42	125	5
1	1					97	28	125	5
1		1				97	28	125	5
1						111	14	125	5
1	2					83	42	125	5
1	2					83	42	125	5
1		2				83	42	125	5
1	2					83	42	125	5
1		1				97	28	125	5
					#	125		125	5
11	**9**	**8**			**#**	**1108**	**392**	**1500**	**60**

Rector/*Rector* ,
Prof.univ.dr.habil.Sorin RADU

Decan/*Dean*,
Conf.univ.dr. Florin SOFONEA

Director Departament/Head of Department,
Prof.univ.dr.Mugur ACU

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PLAN DE ÎNVĂȚĂMÂNT / *CURRICULUM*

ANUL 2/ 2nd *YEAR*

Nr. Crt. *No.*	Disciplina *Subject*		Cod *Code*	Semestrul 1/ *1st Semester* AI C	AI S	AI L	AI P	A P	N	Ver. *Eval.*	Cred. *Cred.*	Semestrul 2/ *2nd Semester* AI C	AI S	AI L	AI P	A P	N	Ver. *Eval.*	Cred. *Cred.*	NOSI/ sem
3.1	Dezvoltarea sistemelor informatice cu SQL Server si Oracle / Development of information systems using SQL Server and Oracle		FSTI.MAI.MIA.M.SO.3.1200.E-6.1	1	2					Examen	6									108
3.2	Matematici actuariale si financiare / Actuarial and financial mathematics		FSTI.MAI.MIA.M.SO.3.1200.E-6.2	1	2					Examen	6									108
3.3	Modelare stohastica si statistica aplicata / Stochastic modeling and applied statistics	Optional 2	FSTI.MAI.MIA.M.SA.3.1020.E-6.3	1		2				Examen	6									108
3.4	Procese stohastice / Stochastic processes		FSTI.MAI.MIA.M.SA.3.1020.E-6.4																	
3.5	Analiza Fourier si functii speciale / Fourier analysis and special functions	Optional 3	FSTI.MAI.MIA.M.SA.3.1200.C-6.5	1	2					Colocviu	6									108
3.6	Capitole speciale de analiza functionala / Special chapters of functional analysis		FSTI.MAI.MIA.M.SA.3.1200.C-6.6																	
3.7	Cercetari operationale Operations research	Optional 4	FSTI.MAI.MIA.M.SA.3.1200.C-6.7	1	2					Colocviu	6									108
3.8	Modele matematice in stiintele vietii Mathematical models in life sciences		FSTI.MAI.MIA.M.SA.3.1200.C-6.8																	
4.1	Sisteme dinamice ergodice / Ergodic dynamical systems		FSTI.MAI.MIA.M.SO.4.1200.E-6.1									1	2					Examen	6	108
4.2	Masura Hausdorff si fractali Hausdorff measure and fractals		FSTI.MAI.MIA.M.SO.4.1020.E-6.2									1		2				Examen	6	108
4.3	Algebra computationala / Computational algebra	Optional 5	FSTI.MAI.MIA.M.SA.4.1020.E-6.3									1		2				Examen	6	108
4.4	Metode predictive in sistemele de calcul cu aplicatii web / Predictive methods in computing systems with web applications		FSTI.MAI.MIA.M.SA.4.1020.E-6.4																	
4.5	Elaborarea lucrarii de disertatie / Preparation of dissertation thesis		FSTI.MAI.MIA.M.SO.4.0400.C-12.5										4					Colocviu	12	244
TOTAL				**5**	**8**	**2**				**3E+0V+ 2C+0P**	**30**	**3**	**6**	**4**				**3E+0V+ 1C+0P**	**30**	**1108**
TOTAL ORE PE SĂPTĂMÂNĂ/ *TOTAL NUMBER OF HOURS/WEEK*				**15**								**13**								
				15								**13**								
				15								**13**								

Centralizare/verificare/corelare cu fișele disciplinelor

3.2.a. C	3.2.b. S	3.2.c. L	3.2.d. P	AP	N	3.3. NOSI/ sem	3.4. NOAD/ sem.	3.5. NOAD + NOSI	3.6. Cred.
1	2					108	42	150	6
1	2					108	42	150	6
1		2				108	42	150	6
1	2					108	42	150	6
1	2					108	42	150	6
1	2					108	42	150	6
1		2				108	42	150	6
1		2				108	42	150	6
	4					244	56	300	12
8	**14**	**6**				**1108**	**392**	**1500**	**60**

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