Numerical methods 2023 autumn (CIT)

CIT - Construction Information Technology Engineering Plants

courses	EN1, EN2
lecturers	P. Laky, Gy. Tóth
place	K142, Kf27c
week	Wed 12-14
1.	M1-M2
2.	ERR
3.	NL1
4.	LIN1-2
5.	NL2
6.	REG-IP1
7.	IP2, MT1 (10.18.16-18)
8.	DIF
9.	-
10.	INT
11.	OP1
12.	OP2
13	ODE1
14.	ODE2

Deadlines for the practice exercises

Practice exercises (10x3p)	Available
1: Matlab onramp	09.04.-10.01.
2: NL1	09.20.-10.01.
3: LIN 1-2	09.27-10.08.
4: NL2	10.04-10.15.
5: REG,IP1	10.11-10.22.
6: IP2	10.18-11.05.
7: DIF	10.25-11.19.
8: INT	11.08-11.19.
9: OP1-2	11.15-12.03.
10: ODE 1-2	11.29-12.17.

10 practice exercises. The tasks are available for at least 1 week after the related topic.

Retake of the mid-term test: Dec. 14. 12-14

Days off: Sept.12. (2. week, Tue), Oct.23. (8. week, Mon), Nov. 1. (9. week, Wen), Nov.16. (11. week, Thu), Nov.24. (12. week

	Lectures:	Code			Lectures:	Code
1.	Matlab basics 1.	M1	**10.**		Midterm test 1	MT1
2.	Matlab basics 2.	M2	**11.**		Matlab 3D Graphics (optional)	M3
3.	Computational errors	ERR	**12.**		2-D interpolation, regression	IP2
4.	Nonlinear equations	NL1	**13.**		Numerical differentiation	DIF
5.	System of linear equations 1.	LIN1	**14.**		Numerical integration	INT
6.	System of linear equations 2.	LIN2	**15.**		Optimization 1.	OP1
7.	System of nonlinear equations	NL2	**16.**		Optimization 2.	OP2
8.	1-D regression	REG	**17.**		Ordinary Differential Equations 1.	ODE1
9.	1-D interpolation	IP1	**18.**		Ordinary Differential Equations 2.	ODE2

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