Numerical methods 2022 spring

courses	**EN1**	**EN2**
lecturers	Koppányi Zoltán	Tóth Gyula
place	K142a,b	Kf27c
	Thu 8-10	Wen 10-12
week	#Fri 10-12	#Fri 12-14
1.	M1	M1
2.	M2,ERR	M2,ERR
3.	NL1	NL1
4.	LIN1,LIN2	LIN1,LIN2
5.	NL2	NL2
6.	REG (T1), IP1	REG (T1), IP1
7.	MT1 (03.31.)	MT1 (03.30.)
8.	IP2,-	IP2,-
9.	-	DIF
10.	DIF,INT	-,INT
11.	OP1	OP1
12.	OP2,ODE1	OP2,ODE1
13	ODE2 (T2)	ODE2 (T2)
14.	M3+P2,MT2 (05.20.)	M3+P2,MT2 (05.20.)
classes off:	**4x45 min**	**4x45 min**

Practices exercises (3p)	Available
1: M1-M3	02.14-03.13.
2: NL1	02.28-03.13
3: LIN 1-2	02.28.-03.20.
4: NL2	03.16-04.03.
5: REG,IP1	03.21.-04.10.
6: IP2	04.04-04.24.
7: DIF	04.11.-05.01.
8: INT	04.11-05.08.
9: OP 1-2	04.25-05.15.
10: ODE 1-2	05.02.-05.29.

T1,T2 - 5 minutes tests

Retake of the first mid-term test: May 24. 10.15., Retake of the second mid-term test: May.25, 10.15

Days off: 5.week: 03.14.Mon (work instead: 03.26. Saturday), 03.15.Tue, 8.week: 04.08.Fri, 9-10.week: 04.14-04.20 (1 week spring vacation)

	Lectures:	Code		**Lectures:**	Code
1.	Matlab basics 1.	M1	**12.**	Matlab 3D Graphics (optional)	M3
2.	Matlab basics 2.	M2	**13.**	2-D interpolation, regression	IP2
3.	Computational errors	ERR	**14.**	Numerical differentiation	DIF
4.	Nonlinear equations	NL1	**15.**	Numerical integration	INT
5.	System of linear equations 1.	LIN1	**16.**	Optimization 1.	OP1
6.	System of linear equations 2.	LIN2	**17.**	Optimization 2.	OP2
7.	System of nonlinear equations	NL2	**18.**	Ordinary Differential Equations 1.	ODE1
8.	1-D regression	REG	**19.**	Ordinary Differential Equations 2.	ODE2
9.	1-D interpolation	IP1	**20.**	(Practice 2 - overview - optional)	P2
10.	(Practice 1 - overview - optional)	P1	**21.**	Midterm test 2	MT2
11.	Midterm test 1	MT1			