

Numerical methods 2018 autumn

courses	EN1	EN2	EN3	EN5
lecturers	Kristóf Kapitány	Gyula Tóth	Kristóf Kapitány	Bence Ambrus
place	K142b	Kf27c	K142a	K142a
	+Mon 12-14	Mon 14-16	#Mon 12-14	Wen 10-12
week	Thu 8-10	#Tue 12-14	Thu 12-14	+Fri 14-16
1.	M1,M2	M1	M1	M1,M2
2.	ERR (A1)	M2,ERR (A1)	M2,ERR (A1)	ERR (A1)
3.	NL1,(->10.13. Sat)	NL1	(->10.13. Sat)	NL1,LIN1
4.	LIN1	LIN1,LIN2	NL1,LIN1	LIN2
5.	LIN2,NL2	NL2	LIN2	NL2,REG (A2)
6.	REG (A2),IP1 (Sat)	REG (A2),IP1	NL2,REG (A2),IP1 (Sat)	IP1
7.	P,T1 (10.18.)	T1 (10.15.)	T1 (10.18.)	P,T1 (10.19.)
8.	IP2	-, -	-, IP2	IP2
9.	OPT,-	IP2	-	OPT,DER
10.	DER	OPT,DER	OPT,DER	INT
11.	INT,ODE	INT	INT	-,ODE
12.	ODE2 (A3)	ODE, ODE2(A3)	ODE, ODE2(A3)	ODE2 (A3)
13.	T2 (11.26.)	T2 (11.26.)	T2 (11.29.)	T2 (11.28.)
14.	The last 2 classes are cancelled, instead there will be 2 BIM presentations.			
days off:	1	2	2	1

BIM	place: Km. 79.
Sept. 12. (Wednesday)	18.15-19.45
Sept. 19. (Wednesday)	18.15-19.45

A1,A2,A3 - 5 minutes tests (Days off: 15 March (#Thu), 30 March (#Fri), 12 April (+Thu), 13 April (+Fri), 1 May (#Tue))

	Lectures:	Kód		Lectures:	Kód
1.	Matlab basics 1.	M1	11.	Midterm test 1	T1
2.	Matlab basics 2.	M2	12.	2-D interpolation, regression	IP2
3.	Computational errors	ERR	13.	Optimization	OPT
4.	Nonlinear equations	NL1	14.	Numerical ODEferential Equations	DER
5.	System of linear equations 1.	LIN1	15.	Numerical integration	INT
6.	System of linear equations 2.	LIN2	16.	Ordinary ODEferential Equations 1.	ODE
7.	System of nonlinear equations	NL2	17.	Ordinary ODEferential Equations 2.	ODE2
8.	1-D regression	REG	18.	Midterm test 2	T2
9.	1-D interpolation	IP1	19-20.	Building Information Modeling	BIM
10.	Practice - overview	P			

Homework assignment: 4th week (from Sept.24.), deadline: end of 6th week (Oct.14.), extended deadline (for a fee): end of 9th week (Nov.4.)

Retake of the first mid-term test: Dec.10, 10.15, Retake of the second mid-term test: Dec.10, 12.15