

Study programme: **N1101 – Mathematics**Number of credits: **120**Field of study: **Mathematics and Applications**Form of study: **Full-time**Specialization: **00**Stage: **1**Version: **2014**Number of credits: **94****Compulsory courses (block status: A)**No. of credits: **39**

Dept/Crs code	Course name	No. of	No. of hrs/w	Concl.	Recom.	
		Cred.	L+S+SS		year sem.	
KMA/FA2N	Functional Analysis 2	3*	2+1+0	Con,Ex	1	W
KMA/DPS1	Master of Science Thesis Tutorial 1	2	0+0+2	Con	1	S
KMA/NLFA	Nonlinear Functional Analysis	4*	2+1+0	Con,Ex	1	S
KMA/DP1	Master of Science Thesis Work 1	5	0+0+0	Con	2	W
KMA/DPS2	Master of Science Thesis Tutorial 2	5*	0+0+2	Con	2	S
KMA/DP2	Master of Science Thesis Work 2	20*	0+0+0	Con	2	S

**Final exams - compulsory (block status: A)**No. of credits: **0**

Dept/Crs code	Course name	No. of	No. of hrs/w	Concl.	Recom.	
		Cred.	L+S+SS		year sem.	
KMA/SZZN1	Functional Analysis	0*	0+0+0	Str	2	S

**Final exams - compulsory options (block status: A)**No. of credits: **0**

Dept/Crs code	Course name	No. of	No. of hrs/w	Concl.	Recom.	
		Cred.	L+S+SS		year sem.	
KMA/SZZN2	Numerical Methods and Optimization	0*	0+0+0	Str	2	S
KMA/SZZN3	Part. Diff. Equations and Appl. of Math.	0*	0+0+0	Str	2	S
KMA/SZZN4	Dynamic Systems and their Applications	0*	0+0+0	Str	2	S
KMA/SZZN5	Differential and Integral Equations	0*	0+0+0	Str	2	S
KMA/SZZN6	Statistical Modelling	0*	0+0+0	Str	2	S

**Note:**

Volba tří předmětů.

**Compulsory options (block status: B)**Min.no. of credits: **66**

Dept/Crs code	Course name	No. of	No. of hrs/w	Concl.	Recom.	
		Cred.	L+S+SS		year sem.	
KMA/CASR1	Time Series 1	4	2+1+0	Con,Ex	1	W
KMA/IR	Integral Equations	4	2+1+0	Con,Ex	1	W
KMA/MK2N	Continuum Mechanics 2	3	2+0+0	Ex	1	W
KMA/MRSA	Multidimensional Statistical Analysis	4	3+1+0	Con,Ex	1	W
KMA/MSW1	Mathematical Software 1	2	0+0+2	Con	1	W
KMA/NDR1	Num. Solution of Differ. Equations 1	3	2+1+0	Con	1	W
KMA/NLP	Nonlinear Programming	4*	3+1+0	Con,Ex	1	W
KMA/ODR2	Ordinary Differential Equations 2	3	2+0+0	Ex	1	W
KMA/PDR2	Partial Differential Equations 2	4	2+1+0	Con,Ex	1	W
KMA/RVSR1	Large Systems of Equations 1	3	2+1+0	Con	1	W
KMA/SDRZL	Seminar on Differential Equations	3	0+0+15S	Con	1	W

KMA/UNS		2	2+0+0	Ex	1	W
KMA/VK1	Selected Lessons in Mathem. Analysis 1	3	2+1+0	Con	1	W
KMA/DS2	Dynamical Systems 2	4	2+1+0	Con,Ex	1	S
KMA/KS		2	2+0+0	Ex	1	S
KMA/MSW2	Mathematical Software 2	2	0+0+2	Con	1	S
KMA/NDR	Nonlinear Differential Equations	4	2+2+0	Con,Ex	1	S
KMA/NDR2	Num. Solution of Differ. Equations 2	4*	2+1+0	Con,Ex	1	S
KMA/ODR3	Ordinary Differential Equations 3	3*	2+1+0	Con	1	S
KMA/RVSR2	Large Systems of Equations 2	3	2+1+0	Con,Ex	1	S
KMA/SDRLL	Seminar on Differential Equations	3	0+0+15S	Con	1	S
KMA/VK2	Selected Lessons in Mathem. Analysis 2	3*	2+1+0	Con,Ex	1	S
KMA/VM	Variational Methods	4*	2+1+0	Con,Ex	1	S
KMA/KF	Conference	5	0+5DS+0	Con	2	W/S
KMA/OP	Professional Training	5	3TS+0+0	Con	2	W/S
KMA/WS	Workshop	5	0+5DS+0	Con	2	W/S
KMA/ZS	Educational Stay	5	0+4TS+0	Con	2	W/S
KMA/AMMS	Appl. of Multivar. Statistics Methods	3	2+2+0	Con,Ex	2	W
KMA/CASR2	Time Series 2	5	2+2+0	Con,Ex	2	W
KMA/DS3N	Dynamical Systems 3	4	2+1+0	Con,Ex	2	W
KMA/IT	Integral Transformations	4	2+1+0	Con,Ex	2	W
KMA/MKP	Finite Element Method	4*	2+1+0	Con,Ex	2	W
KMA/SDRZS	Seminar on Differential Equations	3	0+0+15S	Con	2	W
KMA/TVOP	Shape Optimization	4*	2+0+1	Con,Ex	2	W
KMA/SDRLS	Seminar on Differential Equations	3	0+0+15S	Con	2	S
KMA/VK3	Selected Lessons in Mathem. Analysis 3	3*	2+0+0	Con	2	S
KMA/DDSM	Discrete Dynamical Systems	4	2+2+0	Con,Ex		S
KMA/DS1N	Dynamical Systems 1	4	2+2+0	Con,Ex		S
KMA/MK1M	Continuum Mechanics 1	4	2+2+0	Con,Ex		S
KMA/NMOM	Numerical Methods of Optimization	4*	2+2+0	Con,Ex		S
KMA/PS3M	Probability Theory and Statistics 3	4*	2+2+0	Con,Ex		S

### Optional courses (block status: C)

Dept/Crs code	Course name	No. of	No. of hrs/w	Concl.	Recom.	
		Cred.	L+S+SS			
KAG/T1	Topology 1	3	2+1+0	Con,Ex	1	W
VCJ/AV1	Advanced Academic English 1	1	0+2+0	Con	1	W
KMA/MR	Markov Chains	3	2+1+0	Con,Ex	1	S
KMA/NEM	Nonparametric Methods	4	2+1+0	Con,Ex	1	S
KMA/SSW1	Statistical Software 1	3	0+0+2	Con	1	S
KMI/AM2AI	Algorithm Design 2	5*	2+2+0	Con,Ex	1	S
KMI/PG1AI	Computer Geometry	4*	2+2+0	Con	1	S
VCJ/AV2	Advanced Academic English 2	3*	0+2+0	Ex	1	S
KAG/ATS1	Algebraic Theory of Systems 1	3	0+2+0	Con	2	W
KMA/ANS	ANSYS Software	3	2+1+0	Con	2	W
KMA/SSW2	Statistical Software 2	3	0+0+2	Con	2	W
KMA/STE	Statistical Theory of Experiment	4*	2+1+0	Con,Ex	2	W
KMI/AM3AI	Algorithm Design 3	4*	2+2+0	Con	2	W
KMI/PG2AI	Computer Geometry 2	5	2+2+0	Con,Ex	2	W
KAG/ATS2	Algebraic Theory of Systems 2	3*	0+2+0	Co	2	S
KMA/SSW3	Statistical Software 3	3	0+0+2	Con	2	S

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KMA/KONF	Conference of Applied Mathematics	1	0+1DS+0	Con	W/S
KMA/ODAM	Conference ODAM	1	0+3DS+0	Con	W/S
KMA/MTP	Mathematical Theory of Convection	2*	2+0+0	Ex	S
KMA/TO	Estimation Theory	3	2+0+0	Ex	S