TITLE	Course type/exam type	Suggested semester (hour/week)				ECTS	Prerequisite	Instructor-in-charge
Obligatory courses		1	2	3	4			
Fundamentals of algebra and number theory	lect+pract/oral	2+1				**4**		Dr. Tóth László
Fundamentals of analysis	lect+pract/oral	2+1				**4**		Dr. Pap Margit
Geometry and computer	lect+pract/oral	2+1				**4**		Dr. Laczkó József
Probability and statistics	lect+pract/oral	2+1				**4**		Dr. Frigyik Béla András
Software packages	pract/mark	3				**4**		Dr. Király Balázs
Discrete mathematics I	lect+pract/oral		2+1			**4**		Dr. Szabó Sándor
Introduction to algorithm theory	lect+pract/oral	2+1				**4**		Dr. Jenei Sándor
Criptography	lect+pract/oral	2+1				**4**		Dr. Király Balázs
Linear and nonlinear programming I	lect+pract/oral	2+1				**4**		Dr. Szabó Sándor
Integer programming I	lect+pract/oral		2+1			**4**		Dr. Szabó Sándor
Ordinary differential equations	lect+pract/oral		2+1			**4**		Dr. Frigyik Béla András
Numeric mathematics	lect+pract/oral		2+1			**4**		Dr. Király Balázs
Numerical modelling, numerical solutions of	lect+pract/oral				2+1	**4**		Dr. Király Balázs
Partial differential equations	lect+pract/oral			2+1		**4**	Ordinary differential equations	Dr. Frigyik Béla András
Statistics and applications	lect+pract/oral			2+2		**7**		Dr. Frigyik Béla András
Information theory	lect+pract/oral		2+1			**4**		Dr. Frigyik Béla András
Codes and symmetrical structures	lect+pract/oral		2+1			**4**		Dr. Ruff János
Integral geometry	lect+pract/oral				2+2	**7**		Dr.Varga Csaba
Applied analysis	lect+pract/oral			2+1		**3**		Dr. Pap Margit
Complex analysis	lect+pract/oral			2+1		**3**		Dr. Pap Margit
Thesis I.	sem/mark			X		**10**		
Thesis II.	sem/mark				X	**10**		
Facultative courses (completing min. 10 credits)						**10**		
Game theory	lect+pract/oral			2+1		**3**		Dr. Frigyik Béla András
Special topics in game theory	lect/oral				2	**2**		Dr. Frigyik Béla András
Stochastical analysis	lect+pract/oral			2+1		**5**		Dr. Frigyik Béla András
The basics of approximation theory	lect+pract/oral			2+1		**5**		Dr. Pap Margit
Signals and systems lecture	lect/oral			2		**2**		Dr. Márton Zsuzsanna
Signals and systems practical course	pract/mark			2		**3**		Dr. Márton Zsuzsanna
Sparse linear systems	lect+pract/oral			2+1		**5**		Dr. Tóth László
Quantum informatics	lect/oral		2			**3**		Dr. Ádám Péter

Quantum informatics	sem/mark			2		**3**		Dr. Ádám Péter
MATLAB I	pract/mark		3			**3**		Dr. Mechler Mátyás
MATLAB II	pract/mark			2		**3**		Dr. Mechler Mátyás
LabView basics	pract/mark		2			**3**		Dr. Márton Zsuzsanna
LabView II	pract/mark			2		**3**		Dr. Márton Zsuzsanna
Computer algebra I lec.	lect/oral			2		**2**		Dr. Tibai Zoltán
Computer algebra I prac.	pract/mark			2		**3**		Dr. Tibai Zoltán
Computer algebra II lec.	lect/oral				2	**2**		Dr. Tibai Zoltán
Computer algebra II prac.	pract/mark				2	**3**		Dr. Tibai Zoltán
Elective courses (completing min. 6 credits)						**6**		