TITLE	ECTS	exam type	Semester	hour/semester					Instructor-in-charge	Prerequisite
				lecture	practice	seminar	laboratory	field trip		
total credit (6 semester)	180									
total credit - 1. semester	30		1							
total credit - 2. semester	30		2							
total credit - 3. semester	30		3							
total credit - 4. semester	30		4							
total credit - 5. semester	31		5							
total credit - 6. semester	29		6							
Obligatory courses										
Finite mathematics 1 sem.	2	Mark	1		26				Dr. Tóth László	
Finite mathematics 1 lec.	3	Oral	1	26					Dr. Tóth László	
Number Theory sem.	2	Mark	1		26				Dr. Tóth László	
Number Theory lec.	3	Oral	1	26					Dr. Tóth László	
Elementary programming	5	Mark	1		52				Dr. Kégl Tímea	
Logic	2	Mark	1		26				Dr. Eisner Tímea	
Introduction to Mathematics	3	Mark	1		39				Király Balázs	
Analysis 1 sem.	2	Mark	1		26				Dr. Pap Margit	
Analysis 1 lec.	3	Oral	1	39					Dr. Pap Margit	
Introduction to Algebra sem.	2	Mark	1		26				Dr. Tóth László	
Introduction to Algebra lec.	3	Oral	1	26					Dr. Tóth László	
Linear Algebra lect.	3	Oral	2	26					Dr. Simon Ilona	Introduction to Algebra lec. and sem.
Linear Algebra sem.	2	Mark	2		26				Dr. Simon Ilona	Introduction to Algebra lec. and sem.
Algorithms and Data Structures	5	Oral	2	26	26				Dr. Almási Gábor	
Analysis 2 lec.	3	Oral	2	39					Dr. Pap Margit	Analysis 1 lec. and sem.
Analysis 2 sem.	2	Mark	2		26				Dr. Pap Margit	Analysis 1 lec. and sem.
Topics of Numerical Series lect.	3	Oral	2	26					Dr. Pap Margit	Analysis 1 lec. and sem.
Topics of Numerical Series sem.	2	Mark	2		13				Dr. Pap Margit	Analysis 1 lec. and sem.
Geometry 1 lec.	3	Oral	2	26					Dr. Ruff János	
Geometry 1 sem.	2	Mark	2		26				Dr. Ruff János	
Document Preparation with LaTeX	3	Mark	2		26				Dr. Mechler Mátyás	
Finite Mathematics 2 sem.	2	Mark	3		13				Dr. Ruff János	Finite mathematics 1 lec. and sem.
Finite Mathematics 2 lec.	2	Oral	3	26					Dr. Ruff János	Finite mathematics 1 lec. and sem.
Basics of Computer Science	5	Mark	3	26	26				Dr. Jenei Sándor	
Analysis 3 sem.	2	Mark	3		26				Dr. Pap Margit	Analysis 2 lec. and sem.
Analysis 3 lec.	3	Oral	3	26					Dr. Pap Margit	Analysis 2 lec. and sem.
Probability Theory lec.	3	Oral	3	26					Dr. Eisner Tímea	Finite mathematics 1 lec. and sem. Analysis 2 lec. and sem.
Probability Theory sem.	2	Mark	3		26				Dr. Eisner Tímea	Finite mathematics 1 lec. and sem. Analysis 2 lec. and sem.
Mathematical Software Packages	2	Mark	3		26				Király Balázs	
Operations Research sem.	3	Mark	3		39				Király Balázs	Linear Algebra lec. and sem.
Operations Research lec.	2	Oral	3	13					Király Balázs	Linear Algebra lec. and sem.
Geometry 2 sem.	2	Mark	4		26				Dr. Ruff János	Geometry 1 lec. and sem.

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				lecture	practice	seminar	laboratory	field trip		
Geometry 2 lec.	3	Oral	4	26					Dr. Ruff János	Geometry 1 lec. and sem.
Differential Equations lec.	3	Oral	4	26					Dr. Eisner Tímea	Analysis 3 lec. and sem.
Differential Equations sem.	2	Mark	4		26				Dr. Eisner Tímea	Analysis 3 lec. and sem.
Numerical Methods I lec.	3	Oral	4	26					Király Balázs	Analysis 3 lec. and sem.
Numerical Methods I sem.	2	Mark	4		26				Király Balázs	Analysis 3 lec. and sem.
Abstract Algebra sem.	2	Mark	4		26				Dr. Tóth László	Linear Algebra lec. and sem.
Abstract Algebra lec.	3	Oral	4	26					Dr. Tóth László	Linear Algebra lec. and sem.
Analysis in Several Variables sem.	2	Mark	4		26				Dr. Pap Margit	Analysis 3 lec. and sem.
Analysis in Several Variables lec.	4	Oral	4	39					Dr. Pap Margit	Analysis 3 lec. and sem.
Thesis seminar 2.	4	Mark	5						Dr. Tóth László	
Numerical Methods II sem.	2	Mark	5		26				Király Balázs	Numerical Methods I lec. and sem.
Numerical Methods II lec.	3	Oral	5	26					Király Balázs	Numerical Methods I lec. and sem.
Measures and Integrals lec.	4	Oral	5	26					Dr. Eisner Tímea	Analysis in Several Variables lec. and sem.
Complex functions lec.	3	Oral	5	26					Dr. Pap Margit	Analysis in Several Variables lec. and sem.
Complex functions sem.	2	Mark	5		26				Dr. Pap Margit	Analysis in Several Variables lec. and sem.
Projective Geometry lec.	3	Oral	5	26					Dr. Ruff János	Geometry 2 lec. and sem.
Projective Geometry sem.	2	Mark	5		26				Dr. Ruff János	Geometry 2 lec. and sem.
Basics of Statistics	3	Mark	6		26				Dr. Hetesi Zsolt	Probability Theory lec. and sem.
Foundations of Mathematics	2	Oral	5	26					Dr. Tóth László	Abstract Algebra lec. and sem.
Fourier Series	4	Oral	6	26					Dr. Eisner Tímea	Analysis 3 lec. and sem.
Geometry of Curves and Surfaces lec	3	Oral	6	26					Dr. Ruff János	Geometry 2 lec. and sem.
Geometry of Curves and Surfaces prac	2	Mark	6		26				Dr. Ruff János	Geometry 2 lec. and sem.
Chat GPT	4	Mark	6	13	26				Karsa Róbert	
Mathemaitical Foundations of Artificial Intelligence	3	Oral	6	26					Dr Szabó Sándor	
Thesis seminar 2.	6	Mark	6						Dr. Tóth László	
Facultative courses (11 credit to be completed)										
Facultative course I.	2		3							
Facultative course II.	2		4							
Facultative course III.	3		5							
Facultative course IV.	4		6							
Basics of physics	2	Oral	spring	26					Dr. Erostyák János	
Programming I.	6	Mark	fall		52				Dr. Mogyorósi Gábor	
Programming II.	6	Mark	spring		52				Dr. Mogyorósi Gábor	Programming I.
English mathematical terminology	2	Oral	spring	26					Dr. Simon Ilona	
Multiplicative Number Theory	2	Oral	spring	26					Dr. Tóth László	Number Theory lec. and sem.
Selected Topics of Geometry lec.	2	Oral	fall	26					Dr. Ruff János	Geometry of Curves and Surfaces lec. and sem.
Selected Topics of Geometry sem.	2	Mark	fall		26				Dr. Ruff János	Geometry of Curves and Surfaces lec. and sem.
Topology	3	Oral	fall	26					Dr. Ruff János	
Coding Theory	5	Mark	spring	26	13				Dr. Szabó Sándor	
History of Mathematics	2	Oral	fall	26					Dr. Tóth László	
Computer Algebra	3	Oral	spring	26					Dr. Szabó Sándor	

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				lecture	practice	seminar	laboratory	field trip		
Finite Geometry	3	Oral	fall	26					Dr. Ruff János	
Matlab I.	3	Mark	spring		39				Dr. Mechler Mátyás	
Matlab II.	2	Mark	fall		26				Dr. Mechler Mátyás	
Elementary Mathematics 1	2	Mark	fall		26				Király Balázs	
Elementary Mathematics 2	3	Mark	fall		26				Király Balázs	
Elementary Mathematics 3	2	Mark	spring		26				Király Balázs	
Elementary Mathematics 4	2	Mark	fall		26				Király Balázs	
Mathematical Foundations of Artificial Intelligence sem.	3	Mark	spring		26				Karsa Róbert	
Deep Learning	4	Mark	fall	13	26				Karsa Róbert	
Theory of Representations lec.	3	Oral	fall	26					Dr. Pap Margit	Abstract Algebra lec. and sem.
Theory of Representations sem.	1	Mark	fall		13				Dr. Pap Margit	Abstract Algebra lec. and sem.
Elective courses (9 credits to be completed)										
Elective course I.	2		2							
Elective course II.	2		3							
Elective course III.	2		4							
Elective course IV.	3		5							