

COURSES IN THE ACADEMIC YEAR 2018/2019

STUDY PROGRAMME AT UP FAMNIT: **MATHEMATICS** (1st bologna cycle), in **English**

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COMPULSORY COURSES

1st YEAR (10 compulsory courses)

Numb.	Course	Year	Semester ¹	Language
1	Analysis I - Foundations of Analysis	1st	Autumn	English
2	Algebra I - Matrix Calculus	1st	Autumn	English
3	Computer Science I	1st	Autumn	English
4	Discrete Mathematics I - Set Theory	1st	Autumn	English
5	Mathematical Practicum I	1st	Autumn	English, Slovene
6	Computer Practicum	1st	Autumn	English
7	Algebra II - Linear Algebra	1st	Spring	English
8	Analysis II - Infinitesimal Calculus	1st	Spring	English
9	Mathematical Topics in English I	1st	Spring	English
10	Discrete Mathematics II - Combinatorics	1st	Spring	English

2nd YEAR (9 compulsory and 1 elective course)

Numb.	Course	Year	Semester	Language
1	Physics	2nd	Autumn	English
2	Algebra III - Abstract Algebra	2nd	Autumn	English
3	Analysis III - Functions of Many Variables	2nd	Autumn	English
4	Introduction to Numerical Calculations	2nd	Spring	English
5	Computer Science II	2nd	Spring	English
6	Probability	2nd	Spring	English
7	Mathematical Topics in English II	2nd	Spring	English
8	Analysis IV - Real Analysis	2nd	Spring	English
9	Algebra IV - Algebraic Structures	2nd	Spring	English
10	External elective course 1/3	2nd		

3rd YEAR (1 compulsory course and 9 elective courses) ³

Numb.	Course	Year	Semester	Language
1	Mathematical Modelling	3rd	Spring	English (+ consultations in Slovene)
2	Internal elective course 3/9	3rd		
3	Internal elective course 4/9	3rd		
4	Internal elective course 5/9	3rd		
5	Internal elective course 6/9	3rd		
6	Internal elective course 7/9	3rd		
7	Internal elective course 8/9	3rd		
8	Internal elective course 9/9	3rd		
9	External elective course 2/3	3rd		
10	External elective course 3/3	3rd		

ELECTIVE COURSES

Numb.	Course	ECTS-credits	Course will be available on the course schedule for the year of study	Internal/external elective course	Course leader	Language	Semester
1	Differential Equations	6	3rd	internal or external	Jasna Prezelj	English	1st quartal
2	Introduction to Statistics	6	3rd	internal or external	Rok Blagus	English	Autumn
3	Geometry	6	2nd	internal or external	Istvan Kovacs	English	Autumn
4	Stochastic Processes	6	3rd	internal or external	Marko Orel	Slovene (+ consultations in English)	Autumn
5	Symmetric Codes	6	3rd	internal or external	Pasalic Enes	English	Autumn
6	Functional Analysis	6	3rd	internal or external	Marko Orel	English	Autumn
7	Permutation Groups	6	3rd	internal or external	Istvan Kovacs	English	Autumn
8	Coding Theory	6	3rd	internal or external	Pasalic Enes	English	Spring
9	Cryptography and Computer Safety	6	3rd	internal or external	Pasalic Enes	English	Spring
10	Number Theory	6	3rd	internal or external	Miklavic Štefko	English	Spring
11	Seminar - Introduction to Research Work	6	3rd	internal or external	Požar Rok	English	Spring
12	Algebraic Graph Theory	6	3rd	internal or external	Ademir Hujdurovič	Slovene (+ consultations in English)	Spring
13	Topology	6	2nd, 3rd	internal or external	Russ Woodroofe	English	Spring
14	Measure Theory	6	3rd	internal or external	Marko Orel	English	Spring

SUBSEQUENT CHANGES OF OFFERED COURSES:

Possible subsequent changes of the offered courses will be published in this document and marked in red.