

COURSES IN THE ACADEMIC YEAR 2021/2022

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STUDY PROGRAMME AT UP FAMNIT: COMPUTER SCIENCE (1st bologna cycle), in English

Last change: /

COMPULSORY COURSES

1st YEAR (10 compulsory courses)

Numb.	Course	Year	Semester	Language
1	Mathematics I - Analysis I	1st	Autumn	English
2	Mathematics II - Algebra I	1st	Autumn	English
3	Programming I	1st	Autumn	English
4	Computer Practicum I	1st	Autumn	English
5	Theoretical Computer Science I - Discrete Structures	1st	Autumn	English
6	Systems I - Hardware	1st	Spring	English
7	Systems II - Operating Systems and Computer Networks	1st	Spring	English
8	Programming II - Concepts of Programming Languages	1st	Spring	English
9	Theoretical Computer Science II - Formal Languages and Computability	1st	Spring	English
10	Computer Practicum II	1st	Spring	English

2nd YEAR (7 compulsory and 3 elective courses)

Numb.	Course	Year	Semester	Language
1	Data Structures and Algorithms	2nd	Autumn	English
2	Programming III - Concurrent Programming	2nd	Autumn	English
3	Introduction to Database Systems	2nd	Autumn	English
4	Systems III - Information Systems	2nd	Autumn	English
5	Mathematics III - Algebra II	2nd	Spring	English
6	Mathematics IV - Combinatorics with Graph Theory	2nd	Spring	English
7	Computer Networks	2nd	Spring	English
8	Internal elective course 1/5	2nd		
9	Internal elective course 2/5	2nd		
10	External elective course 1/4 - English Language ³	2nd		

3rd YEAR (4 compulsory, 6 elective courses and seminar - final project paper)

Numb.	Course	Year	Semester	Language
1	Software Engineering	3rd	Autumn	English
2	Information Technology Management	3rd	Spring	English
3	Theoretical Computer Science III - Information Theory	3rd	Spring	English
4	Seminar - Final Project Paper	3rd	Autumn & Spring	English
5	Internal elective course 3/5	3rd		
6	Internal elective course 4/5	3rd		
7	Internal elective course 5/5	3rd		
8	External elective course 2/4	3rd		
9	External elective course 3/4	3rd		
10	External elective course 4/4	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	English Language (B2)	6	2nd	external	Martina Paradiž	English	Autumn
2	Multimedia Design	6	3rd	internal or external	Matjaž Kljun	English	Autumn
3	Introduction to Machine Learning and Data Mining	6	2nd, 3rd	internal or external	Branko Kavšek	English	Autumn
4	Adaptive Interactive Systems	6	3rd	internal or external	Marko Tkalčič	English	Autumn
5	Geographic Information Systems	6	3rd	internal or external	Mojca Poklar	English	Autumn
6	Graph Theory	6	3rd	internal or external	Martin Milanič	English	Autumn
7	Human-Computer Interaction	6	2nd, 3rd	internal or external	Matjaž Kljun	English	Spring
8	Augmented Reality	6	2nd, 3rd	internal or external	Klen Čopič Pucihar	English	Spring
9	Decision Support Systems	6	2nd, 3rd	internal or external	Marko Tkalčič	English	Spring
10	Data Programming	6	3rd	internal or external	Uroš Godnov	English	Spring
11	Optimization Methods	6	3rd	internal or external	Martin Milanič	English	Spring

SUBSEQUENT CHANGES OF OFFERED COURSES:

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