Academic year: 2024/2025

Study programme: Computer science - Erasmus

Block - Computer science								
Abbreviation	Name	Current	Credit	Range	End	Sem.	Prerequisites	Teacher
ÚINF/ZLI/21	Linux basics		2	2P	Н	W		Sokol, Staňa
ÚINF/USU/19	Introduction to machine learning		5	2L + 2P	PaS	W	Basics of programming in Python, or another alternative programming language suitable for data analysis	Antoni
ÚINF/UNS1/15	Introduction to neural networks		5	2L + 2P	S	W	Basics of programming in Python, or another alternative programming language suitable for data analysis	Antoni, Horvát
JINF/PRO1b/15	Project II.		4	4P	Н	W	advanced programming skills	Gurský
,							Basic notions from the theory of automata and formal languages. Basic skills in programming and design of algorithms (in	
ÚINF/VYZ1/15	Computational complexity		4	2L	S	W	any programming language). Basics knowledge in mathematical logic, set theory, and graph theory.	Geffert
JINF/KRS/15	Cryptographic systems and their applications		6	3L + 2P	PaS	W	basic number theory and algebra, basic programming	Jirásek, Krivoš-Belluš
ÚINF/MTL/22	MATLAB and neurocognition		2	2P	Н	W	basic programing skills or instructor's consent	Kopčo, Lokša, Doreswamy
ÚINF/UKN/24	Introduction to cognitive and neural sciences		5	2L + 2P	s	W	Algebra, programming (Matlab).	Kopčo, Lokša, Doreswamy
ÚINF/VKN/24	Computational and cognitive neuroscience		5	2L + 2P	s	w	basics of neurobiology, cognitive psychology, linear algebra and differential equations, programing, or instructor's consent	Kopčo, Doreswamy
JINF/APS1/15	Applied probability and statistics		5	2L + 2P	S	W	the basics of differential and integral calculus	Török
JINF/KKV1/21	Classical and quantum computations		6	3L + 2P	S	W	Linear algebra, Group theory, Probability theory, Theory of algorithms, Introduction to quantum computers.	Semanišin, Olejár
JINF/AOS1/15	Administration of OS	!	2	2P	Н	W	basics of Linux usage, basic knowledge of computer networks, operating systems	Sokol, Bajtoš
JINF/SPP1b/22	Programming environments in schools II		4	2L + 2P	Н	W		Šnajder
JINF/TVY/15	Computability theory		4	2L + 1P	S	W	Basics of set theory and working with mappings	Antoni
ÚINF/PSDU/24	Case studies in data mining		4	2L + 2P	н	w	Introduction to programming in Python, Java or R (working with files and packages, operations with arrays, matrices) Introduction to data analysis (training and testing set, model and its evaluation)	Antoni
JINF/P3D0/24	Case studies in data mining		4	2L + 2P	П	VV	Introduction to data analysis (training and testing set, model and its evaluation) Introduction to programming in Python, Java or R (working with files and packages, operations with arrays, matrices)	Antoni
ÚINF/TSD/19	Technologies of big data processing		2	2L	н	s	Introduction to programming in Fython, sava or K (working with lies and packages, operations with arrays, matrices)	Antoni. Dvorský
5, 1.05, 10	Teermologies or big data processing					Ť	Introduction to programming in Python, Java or R (working with files and packages, operations with arrays, matrices)	
JINF/PDA/19	Data analysis project I		4	4L	Н	S	Introduction to data analysis (training and testing set, model and its evaluation)	Antoni
JINF/AFJ1a/15	Automata and formal languages		4	2L + 1P	S	S		Geffert, Šebej
JINF/TYS1/15	Typographical systems		2	2P	Н	S		Krajči
ÚINF/PPPy/24	Advanced programming in Python		2	1L + 1P	Doc	s	Ability to implement simple programs in a selected programming language (eg Java, Pascal, C), basic knowledge of the principles of object-oriented programming.	OIX
JINF/PPPy/24 JINF/PSIN/15	Computer network Internet	+	5	3L + 1P			Basic programming skills	Guniš Gurský
JINI /POIN/ 13	Computer Herwork Internet	+	- o	JL + IP	ras	3	programming skills in some programming language (Python/Java/C++/), mathematics (computing with polynomials,	Guraky
ÚINF/ASU1/15	Algorithms and data structures		4	2L + 1P	s	s	logarithmic and exponential functions; computing limits of sequences, L'Hospital rule)	Krivoš-Belluš
ÚINF/PDS1/21	Parallel and distributed systems		5	2L + 2P	PaS	S	basic of concurrent programming, operating system principles	Jirásek, Krivoš-Belluš, Dvorský, Mikeš
JINF/LAD1/15	Logical aspects of databases		4	2L	S	S	databases (SQL), predicate logic (a symbol, a term, a formula, an interpretation)	Krajči
ÚINF/PMO1/15	Proces modelling		5	2L + 2P	S	S	programming, bases of software engineering and database management systems, bases of project management	Semanišin

Other signs can occur next to the courses of the study programmes

- ! course will not be implemented in the given academic year
- + course will not be implemented, perhaps the next academic year - course is implemented for the last time

Explanatory notes:

L - Lecture, P - Practice W - Winter, S - Summer Range: Semester:

End: S - Examination, H - Evaluation, Z - Credit Exam, A - Passing, PaS - Continuous assessment with examination, P - Continuous assessment / Practice