

Course descriptions

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COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-302/21	Course title: Computer Systems and Networks
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 16s / 4s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 5.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 17	
ABS	NEABS
100,0	0,0
Lecturers: Mgr. Miroslav Wagner	
Last change:	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-301/21	Course title: Creating web
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 16s / 6s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 5.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 17	
ABS	NEABS
100,0	0,0
Lecturers: PaedDr. Roman Hrušecký, PhD.	
Last change:	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-112/21	Course title: Didactics of Informatics
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 2.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 49	
ABS	NEABS
100,0	0,0
Lecturers: prof. RNDr. Ivan Kalaš, PhD.	
Last change:	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-913/21	Course title: Didactics of Informatics
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 21.09.2023	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-212/21	Course title: Didactics of Programming at Primary School
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 16s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 4.	
Educational level: N	
Prerequisites: FMFI.KDMFI/2-prUINx-101/21 - Programming (1)	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 19	
ABS	NEABS
89,47	10,53
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.	
Last change: 06.12.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-213/21	Course title: Didactics of Programming at Secondary School
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 16s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 4.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 19	
ABS	NEABS
78,95	21,05
Lecturers: doc. RNDr. Ľudmila Jašková, PhD.	
Last change: 13.12.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-105/21	Course title: Digital Literacy of Teachers
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 12s / 6s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 1.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 70	
ABS	NEABS
100,0	0,0
Lecturers: Mgr. Mária Čujdíková, PhD.	
Last change:	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-203/21	Course title: Digital Technologies Around Us
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 12s / 6s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 3.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 42	
ABS	NEABS
97,62	2,38
Lecturers: PaedDr. Andrea Hrušecká, PhD., PaedDr. Roman Hrušecký, PhD.	
Last change:	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-901/21	Course title: Diploma Thesis Project
Educational activities: Type of activities: lecture Number of hours: per week: per level/semester: 4s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 5.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 17	
ABS	NEABS
100,0	0,0
Lecturers: doc. RNDr. Zuzana Kubincová, PhD., RNDr. Monika Dillingerová, PhD.	
Last change: 12.12.2022	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-912/21	Course title: Informatics
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 21.09.2023	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-106/21	Course title: Informatics (1)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 2.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 49	
ABS	NEABS
93,88	6,12
Lecturers: Mgr. Lucia Budinská, PhD.	
Last change: 20.07.2021	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-206/21	Course title: Informatics (2)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 3.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 41	
ABS	NEABS
100,0	0,0
Lecturers: RNDr. Michal Winczer, PhD.	
Last change: 20.07.2021	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-306/21	Course title: Informatics (3)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 16s / 6s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 5.	
Educational level: N	
Prerequisites:	
Course requirements: Continuous assessment: tests, experiments, individual creative work Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50%	
Learning outcomes: The student will get acquainted with the methods of creating efficient algorithms and will be able to design and use algorithms for selected problems.	
Class syllabus: - Complexity of algorithms, complexity analysis - Methods of creating efficient algorithms: divide and conquer, greedy, dynamic programming, methods based on state space search	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 17	
ABS	NEABS
100,0	0,0
Lecturers: RNDr. Michal Winczer, PhD.	
Last change: 14.03.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-103/21	Course title: Mathematical Fundamentals of Informatics (1)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 1.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 52	
ABS	NEABS
94,23	5,77
Lecturers: PaedDr. Daniela Bezáková, PhD.	
Last change: 02.08.2021	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-104/21	Course title: Mathematical Fundamentals of Informatics (2)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 2.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 49	
ABS	NEABS
95,92	4,08
Lecturers: PaedDr. Daniela Bezáková, PhD.	
Last change: 02.08.2021	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-101/21	Course title: Programming (1)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 1.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 52	
ABS	NEABS
92,31	7,69
Lecturers: prof. RNDr. Ivan Kalaš, PhD.	
Last change: 14.09.2021	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-102/21	Course title: Programming (2)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 2.	
Educational level: N	
Prerequisites: FMFI.KDMFI/2-prUINx-101/21 - Programming (1)	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 48	
ABS	NEABS
93,75	6,25
Lecturers: doc. RNDr. Zuzana Kubincová, PhD.	
Last change: 05.06.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-201/21	Course title: Programming (3)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 3.	
Educational level: N	
Prerequisites: FMFI.KDMFI/2-prUINx-102/21 - Programming (2)	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 40	
ABS	NEABS
100,0	0,0
Lecturers: doc. RNDr. Zuzana Kubincová, PhD., PaedDr. Andrea Hrušecká, PhD.	
Last change: 05.06.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-202/21	Course title: Programming (4)
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 20s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 4.	
Educational level: N	
Prerequisites: FMFI.KDMFI/2-prUINx-201/21 - Programming (3)	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 18	
ABS	NEABS
88,89	11,11
Lecturers: doc. RNDr. Zuzana Kubincová, PhD., PaedDr. Andrea Hrušecká, PhD.	
Last change: 05.06.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-111/21	Course title: Propedeutics of Informatics Education
Educational activities: Type of activities: lecture / independent work Number of hours: per week: per level/semester: 16s / 8s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 1.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 52	
ABS	NEABS
90,38	9,62
Lecturers: Mgr. Karolína Miková, PhD.	
Last change: 24.07.2021	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-211/21	Course title: Robotics in Education
Educational activities: Type of activities: lecture Number of hours: per week: per level/semester: 16s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 4.	
Educational level: N	
Prerequisites:	
Course requirements: Priebežné hodnotenie: tvorba aktivít počas seminárov (50%) a metodických materiálov a paralelné testovanie týchto aktivít pre vybrané robotické hračky (50%) Orientačná hodnotiacia stupnica: A 90 %, B 80 %, C 70 %, D 60 %, E 50 % Scale of assessment (preliminary/final): 80/20	
Learning outcomes: Students will gain personal experience working with educational robots and applications to control them, for different age categories. They are trying to implement activities. They will discuss and look for suitable solutions. They will get acquainted with project teaching and with the constructionist form of teaching and will be able to start the basic principles of these forms in educational activities with a robotic kit.	
Class syllabus: Students will gain personal experience working with educational robots and applications to control them, for different age categories. They are trying to implement activities. They will discuss and look for suitable solutions. They will get acquainted with project teaching and with the constructionist form of teaching and will be able to start the basic principles of these forms in educational activities with a robotic kit.	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 19	
ABS	NEABS
78,95	21,05
Lecturers: Mgr. Karolína Miková, PhD., Mgr. Jakub Krcho	

Last change: 21.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-221/21	Course title: Teaching Practice
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 20s Form of the course: on-site learning	
Number of credits: 0	
Recommended semester: 3., 4..	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 31	
ABS	NEABS
100,0	0,0
Lecturers: RNDr. Michal Winczer, PhD.	
Last change: 16.06.2023	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2- prUINx-911/21	Course title: Thesis Defence
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 16.06.2023	
Approved by:	