Course descriptionsTABLE OF CONTENTS

1. 2-UFY-256/15 Assessment of the Science Education Results	3
2. 2-UFY-220/00 Astronomy and Meteorology	4
3. 2-UXX-102/15 Cognitive Psychology	6
4. 2-UIN-107/10 Computer Systems	7
5. 2-UXX-105/15 Computer-aided Science Laboratory	8
6. 2-UIN-117/10 Databases	9
7. 2-UIN-144/15 Design and Analysis of Algorithms	10
8. 2-UIN-280/19 Didactics Seminar in Informatics (1)	11
9. 2-UIN-281/19 Didactics Seminar in Informatics (2)	12
10. 2-UIN-120/00 Didactics of Informatics (1)	13
11. 2-UIN-219/10 Didactics of Informatics (2)	14
12. 2-UFY-961/15 Didactics of Physics (state exam)	15
13. 2-UFY-104/15 Didactics of Physics (1)	
14. 2-UFY-106/15 Didactics of Physics (2)	17
15. 2-UFY-205/15 Didactics of Physics (3)	
16. 2-UIN-108/15 Didactics of Programming (1)	19
17. 2-UIN-109/15 Didactics of Programming (2)	20
18. 2-UXX-991/15 Diploma Thesis Defense (state exam)	21
19. 2-UXX-932/13 Diploma Thesis in Computer Science Seminar (1)	
20. 2-UXX-934/13 Diploma Thesis in Computer Science Seminar (2)	
21. 2-UXX-936/15 Diploma Thesis in Computer Science Seminar (3)	24
22. 2-UXX-933/15 Diploma Thesis in Physics Seminar (1)	
23. 2-UXX-934/15 Diploma Thesis in Physics Seminar (2)	26
24. 2-UFY-212/15 Electronics and Communication for Teachers	27
25. 1-MXX-233/13 English Conversation Course (1)	28
26. 1-MXX-234/13 English Conversation Course (2)	29
27. 1-MXX-141/00 French Language (1)	30
28. 1-MXX-142/00 French Language (2)	31
29. 1-MXX-241/00 French Language (3)	32
30. 1-MXX-242/00 French Language (4)	33
31. 1-MXX-151/00 German Language (1)	
32. 1-MXX-152/00 German Language (2)	35
33. 1-MXX-251/00 German Language (3)	36
34. 1-MXX-252/00 German Language (4)	37
35. 2-UXX-108/00 History of Informatics	
36. 2-UXX-103/00 History of Mathematics	
37. 2-UIN-951/15 Informatics and Didactics of Informatics (state exam)	40
38. 2-UIN-268/15 Information Systems.	41
39. 2-UFY-115/15 Methods for Solving Physical Tasks	
40. 2-UIN-238/15 Mobile Platform Programming for Secondary Schools	43
41. 2-UIN-242/15 Networks	44
42. 2-UIN-111/15 Operating Systems.	
43. 2-UXX-121/18 Pedagogic Diagnostics	46
44. 2-UXX-123/15 Pedagogic Research Methodology (1)	
45. 2-UXX-124/15 Pedagogic Research Methodology (2)	48
46. 2-UXX-122/15 Philosophical Anthropology and Axiology	
47. 2-MXX-110/00 Physical Education and Sport (1)	50

48. 2-MXX-120/00 Physical Education and Sport (2)	51
49. 2-MXX-210/00 Physical Education and Sport (3)	52
50. 2-MXX-220/00 Physical Education and Sport (4)	53
51. 2-UFY-111/15 Practical in Class Experiments in Physics (1)	54
52. 2-UFY-211/15 Practical in Class Experiments in Physics (2)	55
53. 2-UFY-165/15 Practical in Class Experiments in Physics (3)	56
54. 2-UIN-262/15 Programming Competitions	57
55. 2-UIN-236/15 Programming of Application for WEB (2)	
56. 2-UXX-202/00 Robotics in Education (2)	
57. 1-MXX-161/00 Russian Language (1)	
58. 1-MXX-162/00 Russian Language (2)	
59. 1-MXX-261/00 Russian Language (3)	
60. 1-MXX-262/00 Russian Language (4)	
61. 2-UIN-143/18 School Network Administration.	
62. 2-UIN-263/15 Software Engineering.	
63. 2-MXX-115/17 Sports in Natur (1)	
64. 2-MXX-116/18 Sports in Natur (2)	
65. 2-UXX-831/15 Teaching Practice in Computer Science (2)	
66. 2-UXX-832/15 Teaching Practice in Computer Science (3)	
67. 2-UXX-821/15 Teaching Practice in Physics (2)	
68. 2-UXX-822/15 Teaching Practice in Physics (3)	
69. 2-UIN-101/15 Theoretical Computer Science (1)	
70. 2-UIN-102/15 Theoretical Computer Science (2)	
71. 2-UFY-101/15 Theoretical Physics (1)	
72. 2-UFY-102/15 Theoretical Physics (2)	
73. 2-UFY-253/15 Theoretical Physics (3)	
74. 2-UIN-266/15 Web Design	
75. 2-UIN-247/15 Web Technologies in Teaching.	
76. 2-UIN-271/15 Web Technologies in Teaching - Seminar (1)	
77. 2-UIN-272/15 Web Technologies in Teaching - Seminar (2)	
78. 2-UIN-273/17 Web Technologies in Teaching - Seminar (3)	
79. 2-UIN-274/17 Web Technologies in Teaching - Seminar (4)	82

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UFY-256/15 Assessment of the Science Education Results **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 4. **Educational level: II., 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: 16 Α В \mathbf{C} D E FX 87,5 6,25 0,0 0,0 0,0 6,25 Lecturers: PaedDr. Lukáš Bartošovič, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KAFZM/2-UFY-220/00 | Astronomy and Meteorology

Educational activities:

Type of activities: lecture / practicals

Number of hours:

per week: 2 / 1 per level/semester: 28 / 14

Form of the course: on-site learning

Number of credits: 4

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

History of astronomy, spherical astronomy (coordinate systems, stellar aberration, parallax, refraction), Solar system (Sun, planets, dwarf planets, comets, asteroids, meteors), origin and evolution of stars (Jeans critical mass, H-R diagram, nucleogenesis of elements, final evolution stages of stars), galactic astronomy, cosmology. Subject of meteorology, basic conceptions, role and organization of meteorological service. Basic meteorological elements and instrumentation of meteorological station. State equation, principal statics equation, barometric formula. Condensation and sublimation of water vapour. Adiabatic and pseudoadiabatic phenomenons. Thermal stratification. General circulation. Air masses. Atmospheric fronts. Pressure systems. Weather predictions. Human influence on climate.

Recommended literature:

Vanýsek V. 1980, Základy astronómie a astrofyziky, Academia Praha

Beatty J. K., Petersen C. C., Chaikin A. eds.: 1999, The New Solar System, Sky Publ. Corp. and Cambridge Univ. Press

Netopil, R. a kol.: Fysická geografie 1. SPN, Praha, 1984, 272 s.

Zverev, A. S.: Synoptická meteorológia. Alfa, Bratislava, 1986, 711 s.

Munzar, J. a kol.: Malý průvodce meteorologií. Praha, 1989, 248 s.

Bednář, J.: Meteorologie. Portál, s.r.o., Praha, 2003, 224 s., ISBN 80-7178-653-5

Glossary of meteorology. Second edition. American Meteorological Society, Boston, 2000, 855 s., ISBN 1-878220-34-9

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 64

A	В	С	D	Е	FX
81,25	12,5	6,25	0,0	0,0	0,0

Lecturers: RNDr. Marián Melo, PhD., doc. RNDr. Juraj Tóth, PhD.	
Last change: 02.06.2015	
Approved by:	

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KAI/2-UXX-102/15 Cognitive Psychology **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester:** 1. **Educational level:** II. **Prerequisites: Antirequisites:** FMFI.KAI/2-UXX-102/00 **Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 27 В FX Α \mathbf{C} D E 55,56 33,33 0,0 0,0 3,7 7,41 Lecturers: doc. PhDr. Ján Rybár, PhD. Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-107/10 **Computer Systems Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 **Recommended semester:** 1. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 61 Α В \mathbf{C} D E FX 88,52 0,0 1,64 4,92 3,28 1,64 Lecturers: Mgr. Miroslav Wagner Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-105/15 Computer-aided Science Laboratory **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester:** 1. **Educational level: II., 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: 56 Α В \mathbf{C} D E FX 94,64 1,79 3,57 0,0 0,0 0,0 Lecturers: doc. RNDr. Peter Demkanin, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-117/10 **Databases Educational activities:** Type of activities: course **Number of hours:** per week: 3 per level/semester: 42 Form of the course: on-site learning Number of credits: 3 **Recommended semester: 3. Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 50 Α В C D Ε FX 40,0 16,0 22,0 12,0 8,0 2,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD. Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-144/15 Design and Analysis of Algorithms **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 8 Α C В D E FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: RNDr. Michal Winczer, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course title: Course ID:** FMFI.KDMFI/2-UIN-280/19 Didactics Seminar in Informatics (1) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 9 C Α В D Е FX 77,78 11,11 0,0 0,0 0,0 11,11 Lecturers: doc. RNDr. Ľudmila Jašková, PhD. Last change: Approved by:

University: Co	menius Universit	y in Bratislava					
Faculty: Facult	y of Mathematic	s, Physics and Inf	Formatics				
Course ID: FMFI.KDMFI/2	Course title: MFI/2-UIN-281/19 Didactics Seminar in Informatics (2)						
Form of the co	ties: seminar urs: per level/semest ourse: on-site lea						
Number of cree							
Recommended	semester: 4.						
Educational lev	vel: II.						
Prerequisites:							
Course require	ments:						
Learning outco	omes:						
Class syllabus:							
Recommended	literature:						
Languages nec	essary to compl	ete the course:		_			
Notes:							
Past grade dist Total number o	ribution f evaluated stude	nts: 1					
A	В	С	D	Е	FX		
100,0 0,0 0,0 0,0 0,0							
Lecturers: RNDr. Michal Winczer, PhD.							
Last change:							
Approved by:							

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-120/00 Didactics of Informatics (1) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 **Recommended semester: 2. Educational level: II., 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: 100 Α В \mathbf{C} D Е FX 84,0 6,0 3.0 1.0 6.0 0,0 Lecturers: prof. RNDr. Ivan Kalaš, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course title: Course ID:** FMFI.KDMFI/2-UIN-219/10 Didactics of Informatics (2) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 **Recommended semester:** 3. **Educational level: II., 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: 85 A В \mathbf{C} D Е FX 83,53 9,41 5,88 0,0 0,0 1,18 Lecturers: prof. RNDr. Ivan Kalaš, PhD. **Last change:** 02.06.2015 Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava						
Faculty: Faculty of Mathematic	es, Physics and Informatics					
Course ID: FMFI.KDMFI/2-UFY-961/15 Course title: Didactics of Physics						
Number of credits: 3						
Educational level: II.	Educational level: II.					
State exam syllabus:						
Last change: 02.06.2015						
Approved by:						

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID:** Course title: FMFI.KDMFI/2-UFY-104/15 Didactics of Physics (1) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 **Recommended semester:** 1. **Educational level: II., 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 Α В C D E FX 59,62 28,85 9,62 0,0 0,0 1,92 Lecturers: doc. RNDr. Peter Demkanin, PhD., PaedDr. Soňa Chalupková, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UFY-106/15 Didactics of Physics (2) **Educational activities:** Type of activities: lecture / practicals **Number of hours:** per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning Number of credits: 3 Recommended semester: 2. **Educational level: II., 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: 48 Α В C D Е FX 77,08 18,75 4,17 0,0 0,0 0,0 Lecturers: doc. Mgr. PaedDr. Viera Haverlíková, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID:** Course title: FMFI.KDMFI/2-UFY-205/15 Didactics of Physics (3) **Educational activities:** Type of activities: lecture / practicals **Number of hours:** per week: 2/2 per level/semester: 28/28 Form of the course: on-site learning **Number of credits: 5 Recommended semester: 3. Educational level: II. Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 37 Α В C D E FX 89,19 8,11 2,7 0,0 0,0 0,0 Lecturers: doc. RNDr. Peter Demkanin, PhD., Mgr. Karolína Šromeková, PaedDr. Tünde Kiss **Last change:** 02.06.2015

Strana: 18

Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-108/15 Didactics of Programming (1) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 **Recommended semester:** 1. **Educational level: II., 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 Α В \mathbf{C} D E FX 73,17 24,39 2,44 0,0 0,0 0,0 Lecturers: doc. RNDr. Ľudmila Jašková, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course title: Course ID:** FMFI.KDMFI/2-UIN-109/15 Didactics of Programming (2) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 **Recommended semester: 2. Educational level: II., N** Prerequisites: FMFI.KDMFI/2-UIN-108/15 - Didactics of 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: 37 C A В D E FX 56,76 10,81 13,51 5,41 5,41 8,11 Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.

Last change: 02.06.2015

Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathema	atics, Physics and Informatics				
Course ID: FMFI.KAG+KDMFI/2- UXX-991/15 Course title: Diploma Thesis Defense					
Number of credits: 14					
Educational level: II.	Educational level: II.				
State exam syllabus:					
Last change: 02.06.2015					
Approved by:					

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-932/13 Diploma Thesis in Computer Science Seminar (1) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 1 per level/semester: 14 Form of the course: on-site learning Number of credits: 1 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 22 C A В D E FX 86,36 9.09 0,0 0,0 4,55 0,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-934/13 Diploma Thesis in Computer Science Seminar (2) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 1 per level/semester: 14 Form of the course: on-site learning Number of credits: 1 **Recommended semester: 3. Educational level:** II. **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 C Α В D E FX 52,94 29,41 11,76 5,88 0,0 0,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-936/15 Diploma Thesis in Computer Science Seminar (3) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 1 per level/semester: 14 Form of the course: on-site learning Number of credits: 1 Recommended semester: 4. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 7 C Α В D E FX 71,43 28,57 0,0 0,0 0,0 0,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-933/15 Diploma Thesis in Physics Seminar (1) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 1 per level/semester: 14 Form of the course: on-site learning Number of credits: 1 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 32 A В \mathbf{C} D E FX 96,88 0,0 3,13 0,0 0,0 0,0 Lecturers: doc. PaedDr. Klára Velmovská, PhD. Last change: 06.02.2021 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-934/15 Diploma Thesis in Physics Seminar (2) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 1 per level/semester: 14 Form of the course: on-site learning Number of credits: 1 **Recommended semester: 3. Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 32 A В \mathbf{C} D E FX 93,75 3,13 3,13 0,0 0,0 0,0 Lecturers: doc. RNDr. Peter Demkanin, PhD. **Last change:** 06.02.2021 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KEF/2-UFY-212/15 **Electronics and Communication for Teachers Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 **Recommended semester: 3. Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 37 Α В C D Ε FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: doc. RNDr. František Kundracik, CSc., PaedDr. Lukáš Bartošovič, PhD. **Last change:** 02.06.2015

Strana: 27

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-233/13 English Conversation Course (1)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1., 3.

Educational level: I., II.

Prerequisites:

Course requirements:

Scale of assessment (preliminary/final): 100/0

Learning outcomes:

Class syllabus:

The content of the course is general English.

The language level is B2/C1 (Upper-Intermediate/Lower Advanced).

Recommended literature:

Selection of materials from Inside Out Upper-Intermediate, Cutting Edge Upper-Intermediate, New English File Upper-Intermediate, British and American newspapers and journals Recordings: authentic and semi-authentic (source: BBC, CNN, coursebook recordings)

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 193

A	В	С	D	Е	FX
65,28	13,99	7,25	2,07	1,55	9,84

Lecturers: PhDr. Elena Klátiková, Mgr. Aneta Barnes

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-234/13 English Conversation Course (2)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2., 4.

Educational level: I., II.

Prerequisites:

Course requirements:

Scale of assessment (preliminary/final): 100/0

Learning outcomes:

Class syllabus:

The course is a follow-up to the Conversation Course in English (1). The content of the course is general English.

The language level is B2/C1 (Upper-Intermediate/Lower Advanced).

Recommended literature:

Selection of materials from Inside Out Upper-Intermediate, Cutting Edge Upper-Intermediate, New English File Upper-Intermediate, British and American newspapers and journals Recordings: authentic and semi-authentic (source: BBC, CNN, coursebook recordings)

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 118

A	В	С	D	Е	FX
73,73	15,25	4,24	0,85	0,0	5,93

Lecturers: PhDr. Elena Klátiková, Mgr. Aneta Barnes

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-141/00 French Language (1)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

French language is taught at two levels: beginner and intermediate. Students opt for one of them depending on whether they wish to obtain the fundamentals of the language or wish to maintain and/or improve previous knowledge of French.

Recommended literature:

Pravda, Pravdová: Učebnica francúzštiny pre samoukov a kurzy, SPN Bratislava 1999, ISBN 80-08-00431-2

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 421

A	В	С	D	Е	FX
45,13	20,43	19,48	9,03	1,9	4,04

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-142/00 French Language (2)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The subject continues the program of French language (1) and provides courses of essential and intermediate French language.

Recommended literature:

Pravda, Pravdová: Učebnica francúzštiny pre samoukov a kurzy, SPN Bratislava 1999, ISBN 80-08-00431-2

Blažena Srncová: Učebnica francúzštiny pre študentov Matematicko-fyzikálnej fakulty , UK 1983

Kolektív Lingea, s.r.o.: Slovensko-francúzsky hovorník, Bratislava 2008

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 259

A	В	С	D	Е	FX
38,22	25,87	20,08	10,42	2,7	2,7

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-241/00 French Language (3)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The subject provides a course of intermediate French language, covering not only general, but also technical language.

Recommended literature:

Pravda, Pravdová: Učebnica francúzštiny pre samoukov a kurzy, SPN Bratislava 1999, ISBN 80-08-00431-2

Blažena Srncová: Učebnica francúzštiny pre študentov Matematicko-fyzikálnej fakulty , UK 1983

Kolektív Lingea, s.r.o.: Slovensko-francúzsky hovorník, Bratislava 2008

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 101

A	В	С	D	Е	FX
37,62	28,71	21,78	6,93	0,99	3,96

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-242/00 French Language (4)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The subject provides a course of intermediate French covering not only general, but also technical French language.

Recommended literature:

Pravda, Pravdová: Učebnica francúzštiny pre samoukov a kurzy, SPN Bratislava 1999, ISBN 80-08-00431-2

Blažena Srncová: Učebnica francúzštiny pre študentov Matematicko-fyzikálnej fakulty , UK 1983

Kolektív Lingea, s.r.o.: Slovensko-francúzsky hovorník, Bratislava 2008

Zarha Lahmidi: Sciences-techniques.com, ISBN 209-0331186-0, CLE international, 2005

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 71

A	В	С	D	Е	FX
39,44	33,8	18,31	2,82	1,41	4,23

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-151/00 German Language (1)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

German language is taught at three levels: beginner, intermediate and advanced. Students opt for one of them depending on whether they need to learn the fundamentals or maintain and/or improve their previous knowledge.

Recommended literature:

Vilášek, P.: Nemčina pre študentov FMFI, Na webovej stránke autora v elektronickej podobe.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 717

A	В	С	D	Е	FX
35,43	27,62	19,8	9,21	2,79	5,16

Lecturers: Mgr. Alexandra Mad'arová, Mgr. Marián Mancovič

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-152/00 German Language (2)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The course continues the program of German language (1). German language is taught at three levels: beginner, intermediate, advanced.

Recommended literature:

Vilášek, P.: Nemčina pre študentov FMFI, Na webovej stránke autora v elektronickej podobe.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 468

A	В	С	D	Е	FX
35,47	20,51	20,73	13,46	3,42	6,41

Lecturers: Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-251/00 German Language (3)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The subject continues the program of German language (2). It provides a course of intermediate and advanced German language.

Recommended literature:

Vilášek, P.: Nemčina pre študentov FMFI, Na webovej stránke autora v elektronickej podobe. Aus moderner Technik und Naturwissenschaft, 1999, Max Hueber Verlag, D-85737, ISBN 3-19-001629-1

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 158

A	В	С	D	Е	FX
39,24	26,58	21,52	6,96	2,53	3,16

Lecturers: Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-252/00 German Language (4)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The subject continues the program of German language (3). It provides a course of intermediate and advanced German language.

Recommended literature:

Vilášek, P.: Nemčina pre študentov FMFI, Na webovej stránke autora v elektronickej podobe. Vilma Václavíková: Nemčina pre študentov MFF UK, Vysokoškolský učebný text pre potrebu študentov KJP, č. 9793/1982 C VIII/2, 1983

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 85

A	В	С	D	Е	FX
40,0	25,88	12,94	11,76	3,53	5,88

Lecturers: Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-108/00 History of Informatics **Educational activities:** Type of activities: seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 72 Α В \mathbf{C} D Ε FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: RNDr. Michal Winczer, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KAG/2-UXX-103/00 History of Mathematics **Educational activities:** Type of activities: seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 43 C Α В D Е FX 79,07 4,65 13,95 0,0 0,0 2,33 Lecturers: prof. RNDr. Ladislav Kvasz, Dr. **Last change:** 02.06.2015 Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: Course title: FMFI.KDMFI/2-UIN-951/15 Informatics and Didactics of Informatics						
Number of credits: 3						
Educational level: II.						
State exam syllabus:						
Last change: 02.06.2015						
Approved by:	Approved by:					

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-268/15 **Information Systems Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 Recommended semester: 4. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 11 C Α В D Е FX 81,82 9.09 0,0 0,0 9.09 0,0 Lecturers: doc. RNDr. Ľudmila Jašková, PhD. Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics Course title: **Course ID:** FMFI.KDMFI/2-UFY-115/15 Methods for Solving Physical Tasks **Educational activities:** Type of activities: seminar **Number of hours:** per week: 3 per level/semester: 42 Form of the course: on-site learning Number of credits: 3 Recommended semester: 2. **Educational level: II., 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: 48 Α В \mathbf{C} D Е FX 89,58 6,25 4,17 0,0 0,0 0,0 Lecturers: doc. PaedDr. Klára Velmovská, PhD. Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics Course title: **Course ID:** FMFI.KDMFI/2-UIN-238/15 Mobile Platform Programming for Secondary Schools **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester: 3. Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 9 C A В D Е FX 33,33 33,33 11,11 0,0 0,0 22,22 Lecturers: RNDr. Peter Tomcsányi, PhD. **Last change:** 02.06.2015

Strana: 43

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-242/15 Networks **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 2 Α C В D Е FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: Mgr. Miroslav Wagner Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course title: Course ID:** FMFI.KDMFI/2-UIN-111/15 **Operating Systems Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 Recommended semester: 2. **Educational level: II.** Prerequisites: FMFI.KDMFI/2-UIN-107/10 - Computer Systems **Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 12 C A В D Е FX 8,33 25,0 33,33 33,33 0,0 0,0 Lecturers: RNDr. Peter Tomcsányi, PhD. **Last change:** 02.06.2015

Strana: 45

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-121/18 Pedagogic Diagnostics **Educational activities:** Type of activities: lecture **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level:** II. **Prerequisites:** Antirequisites: FMFI-Prif.KDPP/2-UXX-121/15 **Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 278 В Α \mathbf{C} D Ε FX 28,78 18,71 43,53 5,04 2,16 1,8 Lecturers: Mgr. Ľudmila Skačanová Last change: 14.02.2021

Strana: 46

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID:** Course title: FMFI.KDMFI/2-UXX-123/15 Pedagogic Research Methodology (1) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester:** 1. **Educational level: II., 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: 124 A В \mathbf{C} D E FX 66,13 20,97 6,45 1,61 2,42 2,42 Lecturers: PaedDr. Mária Slavíčková, PhD., Mgr. Karolína Miková, PhD. **Last change:** 08.06.2017

Strana: 47

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-124/15 Pedagogic Research Methodology (2) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level:** II. **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 Α В C D E FX 67,74 6,45 3,23 3,23 3,23 16,13 Lecturers: Mgr. Karolína Miková, PhD., PaedDr. Mária Slavíčková, PhD. **Last change:** 08.06.2017

Strana: 48

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI-PriF.KDPP/2-Philosophical Anthropology and Axiology UXX-122/15 **Educational activities:** Type of activities: lecture **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester: 3. Educational level: II. Prerequisites:** Antirequisites: FMFI-PriF.KDPP/2-UXX-122/10 **Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 140 \mathbf{C} D Е FX 77.14 0,71 20.0 1.43 0,71 0.0 Lecturers: Mgr. Štefan Zolcer, PhD.

Strana: 49

Last change: 02.06.2015

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:

Course title:

FMFI.KTV/2-MXX-110/00

Physical Education and Sport (1)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Practicing of the students' game skills in collective sports: basketball, volleyball, football, floorball and hockey. Mastering of the basic technique of a particular sport discipline in other sports. In paddling, basic training on still and slightly flowing water. Development of coordination skills, improvement of articular mobility and cardiovascular system.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 1594

A	В	С	D	Е	FX
98,56	0,56	0,06	0,0	0,0	0,82

Lecturers: PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický, Mgr. Jana Leginusová, Mgr. Tomáš Kuchár, PhD., PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:

Course title:

FMFI.KTV/2-MXX-120/00

Physical Education and Sport (2)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Practicing of offensive and defensive game combinations and playing with modified rules in collective sports such as basketball, volleyball, football, floorball, hockey. Command of elements of higher difficulty in locomotion skills (swimming - crawl stroke, breast stroke, butterfly stroke, trampoline jumping and aerobics – practicing of areobics compositions, bodybuilding – development of the main muscle groups, paddling on running water. Testing of the level of physical fitness and coordination skills.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 1458

A	В	С	D	E	FX
98,97	0,41	0,07	0,07	0,0	0,48

Lecturers: Mgr. Martin Dovičák, PhD., Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Branislav Nedbálek, PaedDr. Mikuláš Ortutay, Mgr. Ondrej Podkonický, Mgr. Júlia Raábová, PhD.

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:

Course title:

FMFI.KTV/2-MXX-210/00

Physical Education and Sport (3)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

To improve offensive and defensive game combinations in collective sports. Practicing of tactical and technical elements in individual sports. Compensatory exercises to correct wrong body posture. Stretching. Competition rules in sport disciplines.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 1219

A	В	С	D	Е	FX
99,02	0,41	0,0	0,0	0,0	0,57

Lecturers: PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický, Mgr. Jana Leginusová, Mgr. Tomáš Kuchár, PhD., PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:

Course title:

FMFI.KTV/2-MXX-220/00

Physical Education and Sport (4)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Sport training for Faculty Championships in a selected sport with modified rules. Selection of sport-talented students into teams of the Faculty Sport League, University League of Bratislava Faculties, and participation in sport events of the Faculty and University.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 1056

A	В	С	D	Е	FX
99,05	0,38	0,09	0,0	0,09	0,38

Lecturers: PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický, Mgr. Jana Leginusová, Mgr. Tomáš Kuchár, PhD., PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Branislav Nedbálek, Mgr. Júlia Raábová, PhD.

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UFY-111/15 Practical in Class Experiments in Physics (1) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester:** 1. **Educational level: II., 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: 50 Α В \mathbf{C} D Е FX 92,0 6,0 0,0 0,0 0,0 2,0 Lecturers: PaedDr. Peter Horváth, PhD. Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UFY-211/15 Practical in Class Experiments in Physics (2) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester: 3. Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 37 Α В C D Е FX 86,49 8,11 2,7 0,0 2,7 0,0 Lecturers: PaedDr. Peter Horváth, PhD., doc. Mgr. PaedDr. Viera Haverlíková, PhD. **Last change:** 02.06.2015

Strana: 55

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UFY-165/15 Practical in Class Experiments in Physics (3) **Educational activities:** Type of activities: seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 4. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 40 Α В \mathbf{C} D Е FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: PaedDr. Peter Horváth, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-262/15 **Programming Competitions Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 Recommended semester: 4. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 15 Α В \mathbf{C} D Е FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: RNDr. Michal Winczer, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-236/15 Programming of Application for WEB (2) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester:** 1. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 1 Α C В D E FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: PaedDr. Roman Hrušecký, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-202/00 Robotics in Education (2) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester:** 1. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 73 A В \mathbf{C} D Е FX 2,74 91,78 1,37 2,74 0,0 1,37 Lecturers: Mgr. Karolína Miková, PhD. Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-161/00 Russian Language (1)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The subject provides a course in Russian language for beginners.

Recommended literature:

The textbook has not been published. It is at students' disposal in an electronic format.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 685

A	В	С	D	Е	FX
58,98	16,35	10,51	4,53	1,9	7,74

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-162/00 Russian Language (2)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The subject continues the program of Russian language (1) and provides a course of Russian for beginners.

Recommended literature:

The textbook has not been published. It is at students' disposal in an electronic format.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 414

A	В	С	D	Е	FX
65,94	15,22	8,7	3,86	0,97	5,31

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-261/00 Russian Language (3)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The course "Russian for Intermediate Students" is a follow-up to "Russian for Beginners". The subject of the course is general Russian in the range appropriate to the given level.

Recommended literature:

The textbook has not been published. It is at students' disposal in an electronic format.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 197

A	В	С	D	Е	FX
70,05	17,77	8,63	2,54	0,0	1,02

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KJP/1-MXX-262/00 Russian Language (4)

Educational activities:

Type of activities: practicals

Number of hours:

per week: 2 per level/semester: 28 Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

The course "Russian for Intermediate Students" is a follow-up to "Russian for Beginners". The subject of the course is general Russian in the range appropriate to the given level.

Recommended literature:

The textbook has not been published. It is at students' disposal in an electronic format.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 142

A	В	С	D	Е	FX
75,35	13,38	7,04	2,82	0,7	0,7

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-143/18 School Network Administration **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning **Number of credits: 2 Recommended semester: 3. Educational level:** II. **Prerequisites:** Antirequisites: FMFI.KDMFI/2-UIN-143/15 **Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 11 FX Α В \mathbf{C} D E 90,91 0,0 0,0 0,0 9,09 0,0 Lecturers: Mgr. Miroslav Wagner Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KAI/2-UIN-263/15 Software Engineering **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning **Number of credits: 3** Recommended semester: 4. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 0 C Α В D E FX 0,0 0,0 0,0 0,0 0,0 0,0 Lecturers: Ing. František Gyarfaš, CSc. **Last change:** 02.06.2015 Approved by:

University: Comen	ius Universi	ty in Bratislava						
Faculty: Faculty of	Mathematic	s, Physics and Inf	Formatics					
Course ID: FMFI.KTV/2-MXX	K-115/17	Course title: Sports in Natur (1)						
Educational activi Type of activities Number of hours per week: per l Form of the cour	: : level/semeste							
Number of credits	: 2							
Recommended sen	nester: 1.							
Educational level:	II.			_				
Prerequisites:								
Course requireme	nts:							
Learning outcome	s:							
Class syllabus:								
Recommended lite	erature:							
Languages necessa	ary to compl	ete the course:						
Notes:								
Past grade distribution Total number of ev		ents: 68						
A	В	С	D	Е	FX			
100,0	0,0	0,0	0,0	0,0	0,0			
Lecturers: Mgr. Br	anislav Nedł	pálek						
Last change:								
Approved by:								

University: Co	menius Universit	y in Bratislava							
Faculty: Facult	y of Mathematic	s, Physics and In	formatics						
Course ID: FMFI.KTV/2-M		Course title: Sports in Natur (2)							
• •	ties:								
Number of cree	dits: 2								
Recommended	semester: 2.								
Educational lev	vel: II.								
Prerequisites:									
Course require	ements:								
Learning outco	omes:			_					
Class syllabus:									
Recommended	literature:								
Languages nec	essary to compl	ete the course:							
Notes:									
Past grade dist Total number o	ribution f evaluated stude	ents: 35							
A	В	С	D	Е	FX				
100,0	100,0 0,0 0,0 0,0 0,0								
Lecturers: Mgr	: Branislav Nedb	álek							
Last change:									
Approved by:									

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-831/15 Teaching Practice in Computer Science (2) **Educational activities:** Type of activities: practice **Number of hours:** per week: per level/semester: 60s Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level: II., 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: 24 Α В \mathbf{C} D E FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: RNDr. Michal Winczer, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-832/15 Teaching Practice in Computer Science (3) **Educational activities:** Type of activities: practice **Number of hours:** per week: per level/semester: 90s Form of the course: on-site learning **Number of credits: 3 Recommended semester: 3. Educational level: II., 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 Α В \mathbf{C} D Е FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: RNDr. Michal Winczer, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-821/15 Teaching Practice in Physics (2) **Educational activities:** Type of activities: practice **Number of hours:** per week: per level/semester: 60s Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level: II., 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: 44 A В \mathbf{C} D Е FX 97,73 2,27 0,0 0,0 0,0 0,0 Lecturers: PaedDr. Peter Horváth, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UXX-822/15 Teaching Practice in Physics (3) **Educational activities:** Type of activities: practice **Number of hours:** per week: per level/semester: 90s Form of the course: on-site learning **Number of credits: 3 Recommended semester:** 3. **Educational level: II., 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: 38 A В \mathbf{C} D Е FX 97,37 2,63 0,0 0,0 0,0 0,0 Lecturers: PaedDr. Peter Horváth, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-101/15 Theoretical Computer Science (1) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning **Number of credits: 3 Recommended semester:** 1. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 20 C Α В D Ε FX 70,0 15,0 10,0 5,0 0,0 0,0 Lecturers: RNDr. Michal Winczer, PhD. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics Course ID: **Course title:** FMFI.KDMFI/2-UIN-102/15 Theoretical Computer Science (2) **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 3 Recommended semester: 4. **Educational level: II.** Prerequisites: FMFI.KDMFI/2-UIN-101/15 - Theoretical Computer Science (1) and leboFMFI.KAI+KDMFI/1-AIN-211/10 - Introduction to Theoretical Informatics and leboFMFI.KI/1-INF-215/14 - Formal Languages and Automata (1) **Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 8 Α В \mathbf{C} Е D FX 100.0 0.0 0.0 0.0 0.0 0.0

Lecturers: RNDr. Michal Winczer, PhD.

Last change: 02.06.2015

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KTF/2-UFY-101/15 Theoretical Physics (1) **Educational activities:** Type of activities: lecture / practicals **Number of hours:** per week: 2/2 per level/semester: 28/28 Form of the course: on-site learning **Number of credits: 5 Recommended semester:** 1. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 45 Α В C D Е FX 75,56 8,89 4,44 8,89 0,0 2,22 Lecturers: prof. RNDr. Anna Dubničková, DrSc. **Last change:** 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KTF/2-UFY-102/15 Theoretical Physics (2) **Educational activities:** Type of activities: lecture / practicals **Number of hours:** per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning Number of credits: 4 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 43 Α В C D E FX 53,49 23,26 9.3 2,33 11,63 0,0 Lecturers: prof. RNDr. Anna Dubničková, DrSc. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KTF/2-UFY-253/15 Theoretical Physics (3) **Educational activities:** Type of activities: lecture / practicals **Number of hours:** per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning Number of credits: 4 Recommended semester: 4. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 37 C Α В D E FX 37,84 24,32 16,22 2,7 18,92 0,0 Lecturers: prof. RNDr. Anna Dubničková, DrSc., RNDr. Eduard Masár, PhD. **Last change:** 02.06.2015

Strana: 76

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI/2-UIN-266/15 Web Design **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level:** II. **Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 3 Α C В D Ε FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: PaedDr. Roman Hrušecký, PhD. Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI+KAI/2-Web Technologies in Teaching UIN-247/15 **Educational activities:** Type of activities: course **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester: 3. Educational level: II. Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 8 В \mathbf{C} D Е Α FX 87,5 0,0 12,5 0,0 0,0 0,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD., doc. RNDr. Martin Homola, PhD. Last change: 02.06.2015 Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI+KAI/2-Web Technologies in Teaching - Seminar (1) UIN-271/15 **Educational activities: Type of activities:** seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester:** 1. **Educational level: II. Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 7 В \mathbf{C} D Е Α FX 85,71 14,29 0,0 0,0 0,0 0,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD., doc. RNDr. Martin Homola, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI+KAI/2-Web Technologies in Teaching - Seminar (2) UIN-272/15 **Educational activities: Type of activities:** seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 2. **Educational level: II. Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 9 В \mathbf{C} D Α Е FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD., doc. RNDr. Martin Homola, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI+KAI/2-Web Technologies in Teaching - Seminar (3) UIN-273/17 **Educational activities: Type of activities:** seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 **Recommended semester: 3. Educational level: II. Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 2 В \mathbf{C} D Α Е FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD., doc. RNDr. Martin Homola, PhD. Last change: Approved by:

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KDMFI+KAI/2-Web Technologies in Teaching - Seminar (4) UIN-274/17 **Educational activities: Type of activities:** seminar **Number of hours:** per week: 2 per level/semester: 28 Form of the course: on-site learning Number of credits: 2 Recommended semester: 4. **Educational level: II. Prerequisites: Course requirements: Learning outcomes:** Class syllabus: **Recommended literature:** Languages necessary to complete the course: **Notes:** Past grade distribution Total number of evaluated students: 5 В \mathbf{C} D Α Е FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: doc. RNDr. Zuzana Kubincová, PhD., doc. RNDr. Martin Homola, PhD. Last change: Approved by: