Course descriptions

TABLE OF CONTENTS

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/1-FYZ-232/15	Advanced Programming

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 1 / 2 **per level/semester:** 14 / 28
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 4.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 84

A	B	C	D	E	FX
57,14	9,52	9,52	2,38	7,14	14,29

Lecturers: prof. RNDr. Peter Markoš, DrSc., Mgr. Michal Ďurian, Ing. Matej Pisarčík, Mgr. Ondrej Tóth, Mgr. Dominika Melicherová

Last change: 05.10.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAGDM/1-FYZ-115/13	Algebra and Geometry (1)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 3 / 1 **per level/semester:** 42 / 14
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 589

A	B	C	D	E	FX
13,75	18,0	20,71	18,51	22,75	6,28

Lecturers: prof. RNDr. Pavol Zlatoš, PhD., Mgr. Tomáš Rusin, PhD.

Last change: 15.01.2018

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAGDM/1-FYZ-160/13	Algebra and Geometry (2)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 3 / 1 **per level/semester:** 42 / 14
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 179

A	B	C	D	E	FX
13,41	22,35	22,35	23,46	15,64	2,79

Lecturers: prof. RNDr. Pavol Zlatoš, PhD., Mgr. Tomáš Rusin, PhD.

Last change: 15.01.2018

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAGDM/1-FYZ-216/15	Algebra and Geometry (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: 3

Recommended semester: 3.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KAGDM/1-FYZ-216/12

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 41

A	B	C	D	E	FX
60,98	21,95	14,63	2,44	0,0	0,0

Lecturers: prof. RNDr. Pavol Zlatoš, PhD.

Last change: 15.01.2018

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAFZM/1-FYZ-421/15	Astronomy and Astrophysics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 71

A	B	C	D	E	FX
46,48	19,72	19,72	8,45	4,23	1,41

Lecturers: doc. RNDr. Juraj Tóth, PhD., RNDr. Roman Nagy, PhD., doc. RNDr. Leonard Kornoš, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-910/15	BSc Project (1)

Educational activities:
Type of activities: independent work
Number of hours:
per week: 3 **per level/semester:** 42
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 5.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 89

A	B	C	D	E	FX
89,89	4,49	0,0	1,12	4,49	0,0

Lecturers: prof. RNDr. Jozef Masarik, DrSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KJFB/1-FYZ-991/15	**Course title:** BSc Project (2)
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 02.06.2015	
Approved by: prof. RNDr. Jozef Masarik, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/2-FOL-116/15	Basic Electronics

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: 3 / 3 **per level/semester:** 42 / 42
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I., 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: 208

A	B	C	D	E	FX
98,08	0,0	1,92	0,0	0,0	0,0

Lecturers: doc. RNDr. František Kundracik, CSc., RNDr. Matej Klas, PhD., RNDr. Juraj Országh, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-AIN-407/15	Brain and Mind

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: I.

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

A	B	C	D	E	FX
58,57	28,57	11,43	1,43	0,0	0,0

Lecturers: doc. PhDr. Ján Rybár, PhD.

Last change: 22.09.2017

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-871/15	Chemical Physics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

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

A	B	C	D	E	FX
40,0	20,0	40,0	0,0	0,0	0,0

Lecturers: prof. Ing. Pavel Mach, CSc., prof. RNDr. Ján Urban, DrSc., RNDr. Peter Papp, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-AIN-408/15	Cognitive 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: 5.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 10

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. PhDr. Ján Rybár, PhD.

Last change: 22.09.2017

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/1-FYZ-667/15	Computer Simulations in Physics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 3 / 3 **per level/semester:** 42 / 42
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

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

A	B	C	D	E	FX
73,17	14,63	9,76	2,44	0,0	0,0

Lecturers: prof. Ing. Roman Martoňák, DrSc., prof. RNDr. Peter Markoš, DrSc., doc. Mgr. Jozef Kristek, PhD., Mgr. Oto Kohulák

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/1-FYZ-211/17	Electromagnetism and Optics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 6 / 4 **per level/semester:** 84 / 56
Form of the course: on-site learning

Number of credits: 11

Recommended semester: 3.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 107

A	B	C	D	E	FX
19,63	12,15	15,89	18,69	24,3	9,35

Lecturers: prof. RNDr. Peter Markoš, DrSc., doc. RNDr. František Kundracik, CSc.

Last change:

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 3., 5.

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: 135

A	B	C	D	E	FX
58,52	18,52	9,63	2,22	1,48	9,63

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 4., 6.

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: 62

A	B	C	D	E	FX
67,74	19,35	4,84	0,0	0,0	8,06

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-131/00	English 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.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
On entering the first semester, students´ knowledge of English is tested and they are divided into groups according to the results of the placement test. In the groups of pre-intermediate and intermediate students, fundamentals of technical English are taught. Advanced students take classes of technical English for their field of study: English for mathematics, for physics, for computer science, English for management and economic and financial mathemathics.

Recommended literature:
Zemanová, A.: Anglický jazyk pre študentov FMFI UK. Kurz pre mierne pokročilých. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-2829-6
Erdélyi L., Gombárik P.: Anglický jazyk pre študentov FMFI UK. Aplikovaná matematika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3216-3
Gombárik P.: Anglický jazyk pre študentov FMFI UK. Matematika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3207-1
Klátiková E.: Anglický jazyk pre študentov FMFI UK. Informatika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3196-8
Alena Zemanová: Anglický jazyk pre študentov FMFI UK. Fyzika. Univerzita Komenského v Bratislave, Bratislava 2014, 92 strán, ISBN: 978-80-223-3477-8.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 4568

A	B	C	D	E	FX
30,12	23,82	18,83	13,05	8,08	6,11

Lecturers: PhDr. Elena Klátiková, PhDr. Alena Zemanová, Mgr. Ing. Jana Kočvarová, Ing. Eva Vartíková, Mgr. Alexandra Maďarová, Mgr. Renáta Čárska, Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015
Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-132/00	English 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.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
This is a continuation of the course English (1) designed for pre-intermediate students. Fundamental vocabulary is presented through selected topics in mathematics, physics and informatics. The lessons also contain revision of elementary grammar. Generally, it is a necessary preliminary to advanced programs.

Recommended literature:
Zemanová, A.: Anglický jazyk pre študentov FMFI UK. Kurz pre mierne pokročilých. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-2829-6

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1350

A	B	C	D	E	FX
18,74	21,19	25,93	17,11	11,26	5,78

Lecturers: PhDr. Elena Klátiková, PhDr. Alena Zemanová, Mgr. Ing. Jana Kočvarová, Ing. Eva Vartíková, Mgr. Alexandra Maďarová, Mgr. Renáta Čárska, Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-231/00	English 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.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The subject continues the program of English (2). Students take classes of special English for their field of study: English for mathematics, English for physics, English for computer science, English for management and economic and financial mathemathics.
The subject requires advanced knowledge of general English.

Recommended literature:
Erdélyi L., Gombárik P.: Anglický jazyk pre študentov FMFI UK. Aplikovaná matematika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3216-3
Gombárik P.: Anglický jazyk pre študentov FMFI UK. Matematika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3207-1
Klátiková E.: Anglický jazyk pre študentov FMFI UK. Informatika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3196-8
Alena Zemanová: Anglický jazyk pre študentov FMFI UK. Fyzika. Univerzita Komenského v Bratislave, Bratislava 2014, 92 strán, ISBN: 978-80-223-3477-8.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1134

A	B	C	D	E	FX
16,67	19,4	22,75	17,55	18,52	5,11

Lecturers: PhDr. Elena Klátiková, PhDr. Alena Zemanová, Mgr. Ing. Jana Kočvarová, Ing. Eva Vartíková, Mgr. Alexandra Maďarová, Mgr. Renáta Čárska, Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-232/10	English 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.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Students take classes of special English for their field of study: English for mathematics, English for physics, English for computer science, English for management and economic and financial mathemathics.

Recommended literature:
Erdélyi L., Gombárik P.: Anglický jazyk pre študentov FMFI UK. Aplikovaná matematika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3216-3
Gombárik P.: Anglický jazyk pre študentov FMFI UK. Matematika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3207-1
Klátiková E.: Anglický jazyk pre študentov FMFI UK. Informatika. Univerzita Komenského v Bratislave, Bratislava 2012, ISBN 978-80-223-3196-8
Alena Zemanová: Anglický jazyk pre študentov FMFI UK. Fyzika. Univerzita Komenského v Bratislave, Bratislava 2014, 92 strán, ISBN: 978-80-223-3477-8.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 2248

A	B	C	D	E	FX
28,43	28,51	20,95	10,9	5,83	5,38

Lecturers: Mgr. Ing. Jana Kočvarová, Mgr. Alexandra Maďarová, Ing. Eva Vartíková, PhDr. Alena Zemanová, PhDr. Elena Klátiková, Mgr. Renáta Čárska, Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-118/16	Exercises form Mechanics (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.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 65

A	B	C	D	E	FX
36,92	23,08	13,85	18,46	6,15	1,54

Lecturers: Mgr. Peter Maták, PhD.

Last change: 24.05.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-119/16	Exercises from Mechanics (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.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 51

A	B	C	D	E	FX
29,41	37,25	19,61	7,84	5,88	0,0

Lecturers: Mgr. Peter Maták, PhD.

Last change: 24.05.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-401/15	Fields of Physical Research

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: I.

Prerequisites:

Antirequisites: FMFI.KJFB/1-FYZ-401/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 707

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. RNDr. Jozef Masarik, DrSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 374

A	B	C	D	E	FX
39,84	22,19	21,66	10,16	2,14	4,01

Lecturers: Mgr. Pavel Vilášek, Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 237

A	B	C	D	E	FX
34,18	27,85	21,52	11,39	2,53	2,53

Lecturers: Mgr. Pavel Vilášek, Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 93

A	B	C	D	E	FX
33,33	30,11	23,66	7,53	1,08	4,3

Lecturers: Mgr. Pavel Vilášek, Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 63

A	B	C	D	E	FX
31,75	38,1	20,63	3,17	1,59	4,76

Lecturers: Mgr. Pavel Vilášek, Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/1-FYZ-212/15	Fundamentals of Programming

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: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 96

A	B	C	D	E	FX
69,79	3,13	7,29	8,33	11,46	0,0

Lecturers: doc. RNDr. František Kundracik, CSc., RNDr. Peter Papp, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 648

A	B	C	D	E	FX
31,94	29,17	21,3	10,03	2,93	4,63

Lecturers: Mgr. Pavel Vilášek, Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 408

A	B	C	D	E	FX
29,17	22,06	23,77	14,95	3,68	6,37

Lecturers: Mgr. Pavel Vilášek, Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 148

A	B	C	D	E	FX
38,51	27,03	22,3	6,76	2,7	2,7

Lecturers: Mgr. Pavel Vilášek, Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 78

A	B	C	D	E	FX
35,9	28,21	14,1	12,82	3,85	5,13

Lecturers: Mgr. Pavel Vilášek, Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-491/15	Integrated Education of People with Disabilities

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: I.

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

A	B	C	D	E	FX
95,83	4,17	0,0	0,0	0,0	0,0

Lecturers: PaedDr. Elena Mendelová, CSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-BMF-311/15	Introduction to Biophysics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 159

A	B	C	D	E	FX
57,23	28,3	8,81	3,77	1,26	0,63

Lecturers: prof. RNDr. Tibor Hianik, DrSc., Mgr. Zuzana Garaiová, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-804/15	Introduction to Optics and Lasers

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 3 / 3 **per level/semester:** 42 / 42
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 150

A	B	C	D	E	FX
85,33	14,67	0,0	0,0	0,0	0,0

Lecturers: prof. RNDr. Pavel Veis, CSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-427/00	Introduction to Philosophy of Language

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Frege's "semantic triangle"; Russell's theory of descriptions; relation between language and "world" (Wittgenstein's "Tractatus logico-philosophicus"); critics of traditional philosophy and its "pseudo-problems"; natural (ordinary) language and artificial languages; two approaches to ordinary language; Quine's critics of dogmas of empiricism; expression meaning as an object (entity) and expression meaning as its use; language games (Wittgenstein's "Philosophical Investigations"), rules and rule following; undestanding - role of community and role of form of life; Oxonian schol of linguistic analysis (P. F. Strawson, J. L. Austin, H. P. Grice)

Recommended literature:
Frege, G.: "O zmysle a denotáte.", In: Filozofia, roč. 47, 1992, č. 6.
Russell, B.: "Opisy.", In: Organon F, 1995, č. 2
Peregrin, J.: Kapitoly z analytické filosofie, Filosofia, Praha 2005.
Filozofia prirodzeného jazyka, Archa, Bratislava 1992

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 19

A	B	C	D	E	FX
84,21	10,53	5,26	0,0	0,0	0,0

Lecturers: PhDr. Dezider Kamhal, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/1-FYZ-451/15	Introduction to Plasma Physics and Electrical Discharges

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites: FMFI.KEF/1-FYZ-211/17 - Electromagnetism and Optics

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 6

A	B	C	D	E	FX
16,67	66,67	16,67	0,0	0,0	0,0

Lecturers: prof. RNDr. Mirko Černák, CSc., Mgr. Dušan Kováčik, PhD., Mgr. Michal Stano, PhD., doc. RNDr. Mário Janda, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-403/00	Introduction to Psychology of Jean Piaget (1)

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: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Piaget's theory of cognitive development
- the sensorimotor stage
- the preoperational stage
- the concrete operational stage
- the formal operational stage

Recommended literature:
J. Piaget, B. Inhelderová: Psychológia dieťaťa. Bratislava: Sofa 1997.
H. E. Gruber, J. J. Voneche, Eds.: Essential Piaget. London: 1995.
CD ROM Piaget, Piaget's videos (Geneva University)

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 0

A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. PhDr. Ján Rybár, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-404/00	Introduction to Psychology of Jean Piaget (2)

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: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
1. Constructivist models (Piaget).
2. Associationist models (Behaviorism).
3. Sociocognitive models (Vygotsky).
4. Nativist models (Chomsky and Fodor).

Recommended literature:
K. Richardson: Models of Cognitive Development. London: Psychology Press 2003.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. PhDr. Ján Rybár, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB+KEF/1-FYZ-231/15	Introduction to Quantum Physics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 4.

Educational level: I.

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	B	C	D	E	FX
31,25	18,75	21,88	12,5	15,63	0,0

Lecturers: prof. RNDr. Miroslav Grajcar, DrSc., prof. RNDr. Jozef Masarik, DrSc., prof. RNDr. Peter Markoš, DrSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/2-FOL-117/15	Introduction to Solid State Physics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I., II.

Prerequisites:

Course requirements:
homeworks + 2 written tests
A 90%, B 80%, C 70%, D 60%, E 50%
Scale of assessment (preliminary/final): 100/0

Learning outcomes:
The students will be able to use notions such as: ideal crystal, reciprocal space, phonon spectrum, electron spectrum, Fermi surface. They will understand how these notions enter the analysis of thermal, electrical, and optical properties of solids.

Class syllabus:
Classification of phases based on symmetry. Van der Waals-London bond. Liquid-gas transition. Crystals with van der Waals and ionic bonding. Elements of crystallography. Surface tension and nucleation. Diffraction experiments and reciprocal space. Classical and quantum theory of lattice vibrations. Metallic bond. Chemical bond. Spectrum of electrons in solids: tight-binding method, Bloch theorem, metals vs. insulators. Transport phenomena: phenomenology, Boltzmann equation. Semiconductors and semiconductor electronics. Response to time-dependent fields. Elementary models of dielectric function.

Recommended literature:
Condensed matter physics : Corrected printing / Michael P. Marder. New York : John Wiley, 2000
Introduction to Solid State Physics / Charles Kittel.
New York: John Wiley, 2005

Languages necessary to complete the course:
english

Notes:

Past grade distribution
Total number of evaluated students: 67

A	B	C	D	E	FX
50,75	14,93	16,42	11,94	5,97	0,0

Lecturers: doc. RNDr. Richard Hlubina, DrSc.
Last change: 18.10.2016
Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-AIN-406/15	Language and Cognition

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: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 30

A	B	C	D	E	FX
30,0	46,67	20,0	3,33	0,0	0,0

Lecturers: doc. PhDr. Ján Rybár, PhD.

Last change: 22.09.2017

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/1-FYZ-405/13	Mathematical Analysis (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: 1

Recommended semester: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 154

A	B	C	D	E	FX
77,27	5,19	3,9	2,6	5,84	5,19

Lecturers: RNDr. Michal Pospíšil, PhD., Mgr. Mária Šubjaková

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KMANM/1-FYZ-406/13	**Course title:** Mathematical Analysis (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: 1	
Recommended semester: 2.	
Educational level: I.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 74

A	B	C	D	E	FX
39,19	22,97	5,41	10,81	14,86	6,76

Lecturers: RNDr. Michal Pospíšil, PhD., Mgr. Mária Šubjaková
Last change: 02.06.2015
Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/1-FYZ-407/13	Mathematical Analysis (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: 1

Recommended semester: 3.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 113

A	B	C	D	E	FX
82,3	0,88	3,54	0,0	1,77	11,5

Lecturers: RNDr. Michal Pospíšil, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTFDF/1-FYZ-408/13	Mathematical Analysis (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: 1

Recommended semester: 4.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 102

A	B	C	D	E	FX
97,06	0,98	0,0	0,0	0,98	0,98

Lecturers: RNDr. Michal Pospíšil, PhD., Mgr. Lukáš Kopnický

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-116/17	Mathematical Methods in Physics (1)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 1.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KJFB/1-FYZ-116/15

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 565

A	B	C	D	E	FX
34,34	14,69	18,05	13,45	15,22	4,25

Lecturers: RNDr. Radoslav Böhm, PhD., doc. RNDr. Vladimír Černý, CSc.

Last change:

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-117/17	Mathematical Methods in Physics (2)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 2.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KJFB/1-FYZ-117/15

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 127

A	B	C	D	E	FX
26,77	10,24	14,96	20,47	23,62	3,94

Lecturers: RNDr. Radoslav Böhm, PhD., doc. RNDr. Vladimír Černý, CSc.

Last change:

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTFDF/1-FYZ-677/15	Mathematical Physics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 57

A	B	C	D	E	FX
68,42	8,77	7,02	3,51	12,28	0,0

Lecturers: doc. RNDr. Marián Fecko, PhD.

Last change: 04.10.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/1-FYZ-120/17	Mathematics (1)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 5 / 3 **per level/semester:** 70 / 42
Form of the course: on-site learning

Number of credits: 9

Recommended semester: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 128

A	B	C	D	E	FX
11,72	4,69	14,84	9,38	47,66	11,72

Lecturers: prof. RNDr. Ján Filo, CSc., Mgr. Zuzana Šinská, Mgr. Patrik Mihala

Last change: 17.08.2017

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/1-FYZ-135/17	Mathematics (2)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 5 / 3 **per level/semester:** 70 / 42
Form of the course: on-site learning

Number of credits: 9

Recommended semester: 2.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 89

A	B	C	D	E	FX
6,74	6,74	11,24	14,61	35,96	24,72

Lecturers: prof. RNDr. Ján Filo, CSc., Mgr. Patrik Mihala, Mgr. Zuzana Šinská

Last change: 17.08.2017

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/1-FYZ-215/17	Mathematics (3)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 5 / 3 **per level/semester:** 70 / 42
Form of the course: on-site learning

Number of credits: 8

Recommended semester: 3.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 137

A	B	C	D	E	FX
2,19	3,65	3,65	9,49	44,53	36,5

Lecturers: RNDr. Michal Demetrian, PhD., RNDr. Michal Pospíšil, PhD.

Last change: 22.09.2017

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/1-FYZ-225/15	Mathematics (4)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 4.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KMANM/1-FYZ-225/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 366

A	B	C	D	E	FX
9,84	7,92	7,92	13,39	49,73	11,2

Lecturers: doc. RNDr. Ján Mózer, DrSc., RNDr. Michal Demetrian, PhD., RNDr. Michal Pospíšil, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/1-FYZ-350/15	Mathematics (5)

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: 4

Recommended semester: 5.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KMANM/1-FYZ-350/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 77

A	B	C	D	E	FX
49,35	25,97	12,99	9,09	2,6	0,0

Lecturers: doc. RNDr. Ján Mózer, DrSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/1-FYZ-370/15	Mathematics (6)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 3 / 2 **per level/semester:** 42 / 28
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 6.

Educational level: I.

Prerequisites: FMFI.KMANM/1-FYZ-120/17 - Mathematics (1) and FMFI.KMANM/1-FYZ-135/17 - Mathematics (2) and FMFI.KMANM/1-FYZ-215/17 - Mathematics (3) and FMFI.KMANM/1-FYZ-225/15 - Mathematics (4)

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 2

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Eugen Viszus, CSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB+KTFDF/1-FYZ-111/15	Mechanics (1)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 1.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KAFZM/1-FYZ-110/00

Course requirements:
Assesment during the semester: homeworks, written tests
Final exam: written test and oral exam
Approximate scale of final grades: A 90%, B 80%, C 70%, D 60%, E 50%

Learning outcomes:
Elementary knowledge of physics methodology, understanding the role of equation of motions, ability to solve simple equations of motion, simple numerical methods which can be used if analytical solution is not possible, orientation in basic terminology of mechanics like mass, energy, momentum, moment of inertia, frequency etc.

Class syllabus:
Physical quantities and units
Kinematics of point-like objects, velocity, acceleration
Vector quantities, centripetal acceleration
Motion with constant acceleration
Motion in constant gravitational field, projectile motion, energy conservation law
Newton laws of mechanics
Law of inertial movement, inertial frame of reference, uniform straight line motion
law of force, numerical solution for ballistic curve
Fundamentals of physics methodology, state of a system, change of state, equation of motion
Rotation, angular velocity
momentum of a system of point objects, conservation law
angular momentum, conservation law
tensor of inertia, Newton laws for simple rotational movements
static friction, dynamic friction
equilibrium conditions
scalar product, work of arbitrary force
Newton gravitation law, gravitation potential, energy conservation
Kepler laws

Circular motion in gravitation field
Harmonic oscillator
Hooks law for spring
Damped harmonic oscillator, resonance effect, lifetime/frequency uncertainty principle
Mathematical and physical pendulum

Recommended literature:
Halliday, Resnick, Walker: Fundamentals of physics
Feynman lectures on physics

Languages necessary to complete the course:
English

Notes:

Past grade distribution
Total number of evaluated students: 593

A	B	C	D	E	FX
15,51	9,95	14,5	13,32	23,27	23,44

Lecturers: doc. RNDr. Vladimír Černý, CSc., RNDr. Radoslav Böhm, PhD., Mgr. Peter Maták, PhD.

Last change: 11.04.2017

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB+KTFDF/1-FYZ-112/15	Mechanics (2)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 2.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 88

A	B	C	D	E	FX
27,27	23,86	21,59	11,36	5,68	10,23

Lecturers: doc. RNDr. Vladimír Černý, CSc., RNDr. Radoslav Böhm, PhD.

Last change: 06.10.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTFDF/1-FYZ-413/15	Methods of Solving Physics Problems (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: 4.

Educational level: I.

Prerequisites:

Course requirements:
Work during semester: homework, problem solution in the class
Weight of the exam: 0%
At least 85% of points is required to achieve grade A, 70% points for grade B, 60% points for grade C, 50% points for grade D and 40% points for grade E.

Learning outcomes:
Students will learn how to solve problems from various physics competitions in a fast an effective fashion.

Class syllabus:
Solutions of problems from various physics competitions, both independently and as a part of a team.

Recommended literature:
Feynmanovy přednášky z fyziky s řešenými příklady 1/3 / Richard P. Feynman, Robert B. Leighton, Matthew Sands. Havlíčkův Brod : Fragment, 2001
Feynmanovy přednášky z fyziky s řešenými příklady : 2/3 / Richard P. Feynman, Robert B. Leighton, Matthew Sands. Havlíčkův Brod : Fragment, 2006
Úlohy predchádzajúcich ročníkov fyzikálnych súťaží.

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 18

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: Mgr. Juraj Tekel, PhD.

Last change: 14.01.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-414/15	Methods of Solving Physics Problems (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: 5.

Educational level: I.

Prerequisites:

Course requirements:
Work during semester: homework, problem solution in the class
Weight of the exam: 0%
At least 85% of points is required to achieve grade A, 70% points for grade B, 60% points for grade C, 50% points for grade D and 40% points for grade E.

Learning outcomes:
Students will learn how to solve problems from various physics competitions in a fast an effective fashion.

Class syllabus:
Solutions of problems from various physics competitions, both independently and as a part of a team.

Recommended literature:
Feynmanovy přednášky z fyziky s řešenými příklady 1/3 / Richard P. Feynman, Robert B. Leighton, Matthew Sands. Havlíčkův Brod : Fragment, 2001
Feynmanovy přednášky z fyziky s řešenými příklady : 2/3 / Richard P. Feynman, Robert B. Leighton, Matthew Sands. Havlíčkův Brod : Fragment, 2006
Úlohy predchádzajúcich ročníkov fyzikálnych súťaží.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 11

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: Mgr. Juraj Tekel, PhD.

Last change: 14.01.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/1-FYZ-601/15	Nuclear Physics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

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

A	B	C	D	E	FX
47,37	15,79	15,79	10,53	5,26	5,26

Lecturers: doc. Mgr. Stanislav Antalic, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-425/00	Philosophical Conceptions of Meaning (1)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
G. Frege on sense reference (denotation) of language expressions;
Russell's theory of descriptions; solving of problems - identity sentences, existential sentences and semantic function of expression without reference;
critics of theory of descriptions - P. F. Strawson and K. Donnellan.
semantics of Tractatus logico-philosophicus - names and objects, sentences as pictures of facts;
Alfred Tarski - semantic conception and definition of truth;
R. Carnap - method of extension and intension, internal and external questions

Recommended literature:
Frege, G.: "O zmysle a denotáte.", In: Filozofia, roč. 47, 1992, č. 6.
Russell, B.: "Opisy.", In: Organon F, 1995, č. 2.
Carnap, R.: Meaning and Necessity, Chicago, IL: University of Chicago Press, 1947.
Peregrin, J.: Význam a struktura. Oikúmené, Praha 1999.
Organon F: preklady článkov Russella, Tarskeho, Donnellana a i.
Denotácia, referencia a význam. Organon F, Príloha, Bratislava 2000.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 2

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: PhDr. Dezider Kamhal, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-426/00	Philosophical Conceptions of Meaning (2)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
names as rigid designators in "possible worlds"; causal-historical theory of reference; semantic reductionism versus semantic holism; W. v. O. Quine - indeterminateness of translation; inscrutability of reference and ontological relativity; Quine's pragmatism; D. Davidson - radical interpretation and principle of charity; H. Putnam - meaning of "meaning", internal and external realism.

Recommended literature:
Kripke, Saul A.: Pomenovanie a nevyhnutnosť. Kalligram, Bratislava 2002
Davidson, D.: Čin, myseľ, jazyk. Archa, Bratislava 1997.
Quine, W. V. O.: Od stimulu k vědě, Academia, Filosofia, Praha 2002
Quine, W. v. O.: Hledání pravdy. Herrmann a synové, Praha 1994.
Peregrin, J. (edit): Obrat k jazyku: Druhé kolo. Filosofia, Praha 1998.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 2

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: PhDr. Dezider Kamhal, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-423/00	Philosophy of L. Wittgenstein (1)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
analysis selected sections of Wittgenstein's main writings; influence of Frege's and of Russell's works; interpretation of Wittgenstein's Tractatus; "picture theory" of meaning - fact and Picture of fact; name and meaning of name; sencente and sentence meaning; criterium of sentence meaningfulness - tautology and contradiction, empirical sentences; boundaries of language from the standpoint of theory of meaning; "what we cannot speak about"

Recommended literature:
Wittgenstein, L.: Tractatus logico - philosophicus, Kalligram, Bratislava 2003.
Wittgenstein, L.: Modrá a Hnedá kniha, Kalligram, Bratislava 2002.
Wittgenstein, L.: Filosofická zkoumání, Filosofia, Praha 1998.
Malcolm, N.: Ludwig Wittgenstein v spomienkach. Archa, Bratislava 1993.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 36

A	B	C	D	E	FX
88,89	2,78	5,56	0,0	2,78	0,0

Lecturers: PhDr. Dezider Kamhal, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-424/00	Philosophy of L. Wittgenstein (2)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
philosophical problem solving by arranging what we have always known (by looking into the workings of our language) - its possibility
meanings of "meaning" in ordinary language; expression meaning as its use (usage, way of use); reading and interpretation of The Blue and Brown Books and of Philosophical Investigations

Recommended literature:
Wittgenstein, L.: Tractatus logico - philosophicus, Praha 1993.
Wittgenstein, L.: Modrá a Hnedá kniha, Kalligram, Bratislava 2002.
Wittgenstein, L.: Filosofická zkoumání, Filosofia, Praha 1998.
Malcolm, N.: Ludwig Wittgenstein v spomienkach. Archa, Bratislava 1993.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 25

A	B	C	D	E	FX
96,0	4,0	0,0	0,0	0,0	0,0

Lecturers: PhDr. Dezider Kamhal, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-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: 0

Recommended semester: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
According to the particular sport: practicing of individual game skills in sports like basketball, volleyball, soccer, floorball. Training in the individual sports like swimming, trampoline jumping, rowing and canoeing, aerobic, bodybuiding, command of fundamental technique of sports discipline. To arrange development of coordination abilities, articular mobility and cardiovascular system.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 4433

A	B	C	D	E	FX
97,23	1,78	0,05	0,0	0,02	0,92

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

Last change: 25.05.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-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: 0

Recommended semester: 2.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Practising offensive and defensive combinations and game at modified rules in collective games such as basketball, volleyball, soccer, floorball. Command of elements of higher difficulty in terms of the level of the activity abilities (crawl stroke, breast stroke, butterfly stroke, trampoline jump, aerobic compositions with steps, fitball, elastic gums, paddling on the running water.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 3794

A	B	C	D	E	FX
97,65	1,95	0,03	0,0	0,0	0,37

Lecturers: Mgr. Tomáš Kuchár, PhD., Mgr. Ondrej Podkonický, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Jana Leginusová, doc. PhDr. Vojtech Potočný, CSc., PaedDr. Mikuláš Ortutay, Mgr. Viktor Sládok, Mgr. Martin Dovičák, Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-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: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
To practise game combinations, tactical - mechanical elements in basketball, volleyball, soccer, floorball, ice hockey, badminton, competition rules in the sports specialization.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 2338

A	B	C	D	E	FX
99,19	0,43	0,0	0,0	0,0	0,38

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

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-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: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Preparation for sport championships of the Faculty in the chosen sport at modified rules. The selection of talented students into the teams of the University and Faculty leagues and other faculty sport events.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 2080

A	B	C	D	E	FX
99,66	0,19	0,0	0,0	0,0	0,14

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

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-MXX-310/00	Physical Education and Sport (5)

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: 5.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Preparation and participation of individuals and teams in the system of university sport competitions and sport events.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1535

A	B	C	D	E	FX
99,35	0,39	0,0	0,0	0,0	0,26

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

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-MXX-320/00	Physical Education and Sport (6)

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: 6.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Using the communication in the physical education and sport and organizing the sport championships to achieve expressive motion of the sport and health in a valuable orientation the students.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1335

A	B	C	D	E	FX
99,55	0,22	0,07	0,0	0,0	0,15

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

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KJFB/1-FYZ-951/15	**Course title:** Physics
Number of credits: 4	
Educational level: I.	
State exam syllabus:	
Last change: 02.06.2015	
Approved by: prof. RNDr. Jozef Masarik, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAFZM+KAMŠ/1-FYZ-476/15	Physics of Continuum

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

Prerequisites: FMFI.KJFB+KTFDF/1-FYZ-111/15 - Mechanics (1) and FMFI.KJFB+KTFDF/1-FYZ-112/15 - Mechanics (2)

Course requirements:
Continuous assessment: test
Approximate rating: A 90%, B 80%, C 70%, D 60%, E 50%
Scale of assessment (preliminary/final): 100/0

Learning outcomes:
Learning outcomes of the course, the students will acquire basic knowledge about continuum, deformation of macroscopic bodies, and dynamics of fluids.

Class syllabus:

Recommended literature:
Mechanika kontinua / Miroslav Brdička, Ladislav Samek, Brno Sopko. Praha : Academia, 2000
Physics of Continuous Matter / B. Lautrup.IOP Publishing, 2005
Lecture Notes on Rheological Models / P. Moczo, J. Kristek, P. Franek. http://www.fyzikazeme.sk/mainpage/stud_mat/Moczo_Kristek_Franek_Rheological_Models.pdf, 2006
Elementary Fluid Dynamics / D. J. Acheson. Oxford: Clarendon Press, 1990
An Introduction to Fluid Dynamics / G. K. Batchelor. Cambridge University Press, 2000

Languages necessary to complete the course:
English

Notes:

Past grade distribution
Total number of evaluated students: 46

A	B	C	D	E	FX
67,39	21,74	4,35	2,17	4,35	0,0

Lecturers: prof. RNDr. Peter Moczo, DrSc., doc. RNDr. Peter Guba, PhD.

Last change: 01.05.2017

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/1-OZE-211/15	Practical I

Educational activities:
Type of activities: laboratory practicals
Number of hours:
per week: 3 **per level/semester:** 42
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 3.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 589

A	B	C	D	E	FX
80,31	11,38	6,28	0,34	1,02	0,68

Lecturers: doc. RNDr. Anna Zahoranová, PhD., Mgr. Dušan Kováčik, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/1-OZE-212/15	Practical II

Educational activities:
Type of activities: laboratory practicals
Number of hours:
per week: 3 **per level/semester:** 42
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 4.

Educational level: I.

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

A	B	C	D	E	FX
44,0	30,0	22,0	0,0	4,0	0,0

Lecturers: doc. RNDr. Tomáš Roch, Dr., RNDr. Ján Greguš, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB+KEF/1-OZE-311/15	Practical III

Educational activities:
Type of activities: laboratory practicals
Number of hours:
per week: 3 **per level/semester:** 42
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 5.

Educational level: I.

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

A	B	C	D	E	FX
50,0	37,5	0,0	0,0	0,0	12,5

Lecturers: doc. RNDr. Ivan Sýkora, PhD., RNDr. Alexander Šivo, PhD., RNDr. Ján Greguš, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-421/00	Problems of Analytical Philosophy (1)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
beginnings - G. Frege, B. Russell and G. E. Moore; goals and methods of the philosophical analysis; relation between language and "world" (Tractatus logico-philosophicus); search for criteria of meaningfulness of sentences; critics of traditional philosophy and of its "pseudoproblems"; Vienna circle - the principle of verifiability and its variants; logical positivism and its limits

Recommended literature:
Frege, G.: "O zmysle a denotáte.", In: Filozofia, roč. 47, 1992, č. 6.
Russell, B.: "Opisy.", In: Organon F, 1995, č. 2
Kamhal, D.(ed.): Z analytickej filozofie I., UK Bratislava 1993, textbook
Peregrin, J.: Kapitoly z analytické filosofie, Filosofia, Praha 2005.
Valenta, L.: Problémy analytické filozofie. Nakladatelství Olomouc 2003.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 35

A	B	C	D	E	FX
91,43	5,71	2,86	0,0	0,0	0,0

Lecturers: PhDr. Dezider Kamhal, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-422/00	Problems of Analytical Philosophy (2)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Natural (ordinary) language and artificial language; two approaches to the analysis of ordinary language; late Wittgenstein - meaning of expression and use of expression, language games; Oxonian "linguistic philosophy" (P. F. Strawson, J. L. Austin, H. P. Grice); J. Searle and elaboration of theory of speech acts; Quine's pragmatism and his critics of dogmas of empiricism; inscrutability of reference and ontological relativity; D. Davidson and his pragmatism

Recommended literature:
Filozofia prirodzeného jazyka, (ed. M. Oravcová) Bratislava, Archa 1992.
Strawson, P. F.: Analýza a metafyzika. Kalligram, Bratislava 2001.
Quine, W. V. O.: Od stimulu k vědě, Academia, Filosofia, Praha 2002
Davidson, D.: Subjektivita, intersubjektivita, objektivita, Praha 2004

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 9

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: PhDr. Dezider Kamhal, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/1-FYZ-805/15	Quantum Optics, Nanoelectronics and Informatics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites: FMFI.KTFDF/1-FYZ-310/15 - Quantum Theory (1)

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 0

A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. RNDr. Miroslav Grajcar, DrSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTFDF/1-FYZ-310/15	Quantum Theory (1)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KTFDF/1-FYZ-310/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 358

A	B	C	D	E	FX
22,07	9,22	12,29	18,72	25,7	12,01

Lecturers: doc. RNDr. Tomáš Blažek, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTFDF/1-FYZ-365/15	Quantum Theory (2)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KTFDF/1-FYZ-365/00

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	B	C	D	E	FX
42,47	10,96	19,18	10,96	12,33	4,11

Lecturers: doc. RNDr. Tomáš Blažek, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-UXX-340/00	Recreation Sports in Dialy Routine of Pupils and Students

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: 5.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
To optimize the daily working programme of the students, the programmes of the sport recreational activities and time-off the students. The sport and health in a value orientation of the students. Using developed elemens in an education physical activity and sport preparation.
The programmes of the sport recreational activities as a basic precondition of health strengthening, acquirement of physical capability, fitness, regaining of working energy and readiness of body to confront stress situations and dangerous factors as a basic precondition of health strengthening, acquirement of physical capability, fitness, regaining of working energy and readiness of body to confront stress situations and dangerous factors.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 44

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. PhDr. Vojtech Potočný, CSc.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 642

A	B	C	D	E	FX
60,9	16,2	9,66	4,83	1,71	6,7

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 389

A	B	C	D	E	FX
65,81	16,2	9,0	3,34	1,03	4,63

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 191

A	B	C	D	E	FX
70,68	17,28	8,38	2,62	0,0	1,05

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

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: 130

A	B	C	D	E	FX
73,85	13,85	7,69	3,08	0,77	0,77

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-MXX-115/15	Sports in Nature (1)

Educational activities:
Type of activities:
Number of hours:
per week: **per level/semester:**
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:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 171

A	B	C	D	E	FX
99,42	0,0	0,58	0,0	0,0	0,0

Lecturers: Mgr. Martin Dovičák, Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický

Last change: 25.05.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-MXX-115/15	Sports in Nature (1)

Educational activities:
Type of activities:
Number of hours:
per week: **per level/semester:**
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:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 171

A	B	C	D	E	FX
99,42	0,0	0,58	0,0	0,0	0,0

Lecturers: Mgr. Martin Dovičák, Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický

Last change: 25.05.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-MXX-215/15	Sports in Nature (2)

Educational activities:
Type of activities:
Number of hours:
per week: **per level/semester:**
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:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 94

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: Mgr. Martin Dovičák, Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický

Last change: 25.05.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/1-MXX-215/15	Sports in Nature (2)

Educational activities:
Type of activities:
Number of hours:
per week: **per level/semester:**
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:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 94

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: Mgr. Martin Dovičák, Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický

Last change: 25.05.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTFDF/1-FYZ-315/15	Statistical Physics and Thermodynamics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KTFDF/1-FYZ-315/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 312

A	B	C	D	E	FX
31,41	10,9	10,9	17,63	25,32	3,85

Lecturers: doc. RNDr. Vladimír Černý, CSc., Mgr. Juraj Tekel, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAMŠ/1-MXX-501/15	Statistics for Non-statisticians

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:

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KAMŠ/1-MXX-501/14

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 15

A	B	C	D	E	FX
93,33	0,0	0,0	0,0	0,0	6,67

Lecturers: doc. Mgr. Ján Mačutek, PhD.

Last change:

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAFZM/1-FYZ-581/15	Synoptic and Dynamic Meteorology

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 5.

Educational level: I.

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

A	B	C	D	E	FX
40,91	9,09	22,73	18,18	9,09	0,0

Lecturers: doc. RNDr. Martin Gera, PhD., Mgr. Zuzana Rusnáková

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTFDF/1-FYZ-251/15	Theoretical Mechanics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 3.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KTFDF/1-FYZ-251/11

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 231

A	B	C	D	E	FX
43,29	9,96	15,15	10,82	9,52	11,26

Lecturers: doc. RNDr. Marián Fecko, PhD.

Last change: 04.10.2016

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/1-MXX-428/00	Theory of Speach Acts

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
semantics versus pragmatics; logical analysis and the analysis of language practice; speech act as a basic unit of communication; performative and constative utterances, speech acts - taxonomy and criteria; locutionary, illocutionary and perlocutionary aspects of speech acts; meaning of an expression as a way of its use and as its use (convention versus intention); meaning of expression, sentence meaning and utterer's meaning; referring as a speech act; applications of the theory of speech acts; conversational "implicatures" and maxims of conversation (H. P. Grice)

Recommended literature:
Austin, J. L.: How to do things with words, Oxford UP, 1975 (in Slovak Ako niečo robiť slovami, Kalligram, Bratislava 2004 Jak udělat něco slovy)
Grice, H. P.: Studies in the way of words, Harvard UP, 1991
Searle, J. R.: Speech acts, Cambridge University Press, var. editions
Wittgenstein, L.: Filozofické skúmania, Pravda, Bratislava 1979

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 42

A	B	C	D	E	FX
73,81	11,9	2,38	4,76	7,14	0,0

Lecturers: PhDr. Dezider Kamhal, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTFDF/1-FYZ-265/15	Theory of the Electromagnetic Field

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 4.

Educational level: I.

Prerequisites:

Antirequisites: FMFI.KTFDF/1-FYZ-265/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 259

A	B	C	D	E	FX
38,61	11,58	13,13	11,97	16,6	8,11

Lecturers: doc. RNDr. Martin Mojžiš, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Jozef Masarik, DrSc.