

Course descriptions

TABLE OF CONTENTS

1. 3-FEN-803/10 BSc Thesis Supervision.....	2
2. 3-FMK-005/00 Boundary Atmospheric Layer Physics.....	3
3. 3-FEN-009/15 Chemical Pollution of Air, Water and Soil.....	4
4. 3-FEN-003/10 Climate Change, Their Causes and Consequences.....	5
5. 3-MXX-101/15 Course of English for PhD Studies (1).....	6
6. 3-MXX-102/15 Course of English for PhD Studies (1).....	7
7. 3-FEN-203/10 Department Seminar (1).....	8
8. 3-FEN-204/10 Department Seminar (2).....	9
9. 3-FEN-205/10 Department Seminar (3).....	10
10. 3-FEN-206/10 Department Seminar (4).....	11
11. 3-FEN-705/10 Development of Novel Software Product Linked with PhD Project.....	12
12. 3-FEN-990/15 Dissertation Thesis Defense (state exam).....	13
13. 3-FEN-008/15 Energy Resources and Environment.....	14
14. 3-FEN-011/15 English Seminar on Environment.....	15
15. 3-FEN-013/15 Environmental Biophysics.....	16
16. 3-FEN-002/10 Environmental Systems Interactions.....	17
17. 3-FEN-004/15 Experimental Methods in Environmental Physics.....	18
18. 3-FEN-703/10 Home Project Co-researcher.....	20
19. 3-FEN-301/10 Independent Research (1).....	21
20. 3-FEN-302/10 Independent Research (2).....	22
21. 3-FEN-303/10 Independent Research (3).....	23
22. 3-FEN-304/10 Independent Research (4).....	24
23. 3-FEN-305/10 Independent Research (5).....	25
24. 3-FEN-306/10 Independent Research (6).....	26
25. 3-FEN-307/10 Independent Research (7).....	27
26. 3-FEN-101/15 Individual Study of Science and Research Resources (1).....	28
27. 3-FEN-102/15 Individual Study of Science and Research Resources (2).....	29
28. 3-FEN-103/15 Individual Study of Science and Research Resources (3).....	30
29. 3-FEN-104/15 Individual Study of Science and Research Resources (4).....	31
30. 3-FEN-702/10 International Project Co-researcher.....	32
31. 3-FEN-704/10 Introduction of Novel Experimental Method Linked with PhD Project.....	33
32. 3-FEN-006/10 Isotopic Technologies and Tracers in Environmental Studies.....	34
33. 3-FEN-001/10 Modelling in Environmental Physics.....	36
34. 3-FEN-007/10 Nanotechnologies in Environmental Physics.....	37
35. 3-FEN-701/10 Obtaining a University Grant.....	38
36. 3-FEN-950/15 Passing Dissertation Examination (state exam).....	39
37. 3-FEN-502/10 Presentation at a Home Conference.....	40
38. 3-FEN-501/10 Presentation at an International Conference.....	41
39. 3-FEN-010/10 Preservation of Total Environment.....	42
40. 3-FEN-409/15 Publication in a Reviewed Periodical.....	43
41. 3-FEN-408/15 Publication in an A-category Periodical.....	44
42. 3-FEN-410/15 Response to a o1 and o2 Category Publication.....	45
43. 3-FEN-005/10 Satellite Research of the Earth.....	46
44. 3-FEN-801/10 Supervising and Demonstrating Work (1).....	47
45. 3-FEN-802/10 Supervising and Demonstrating Work (2).....	48
46. 3-FEN-012/15 Use of Accelerators in Environmental Research.....	49
47. 3-FEN-808/15 Writing BSc or Diploma Thesis Assessment Protocol.....	50

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-803/10	Course title: BSc Thesis Supervision
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFI.KAFZM/3- FMK-005/00	Course title: Boundary Atmospheric Layer Physics
Educational activities: Type of activities: lecture Number of hours: per week: 3 per level/semester: 42 Form of the course: on-site learning, distance learning	
Number of credits: 6	
Recommended semester: 3.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus: Turbulent state of the atmosphere, the vertical profiles of some meteorological elements in the boundary and surface atmospheric layers, model computation of the energy balance components, motion equations for average input parameters. Outline covers generally whole contemporary scope of this lecture. Choice from given themes make supervisor in compliance with thesis.	
Recommended literature: Tomlain, J., Damborská I.: Fyzika hraničnej vrstvy atmosféry. Univerzita Komenského, Bratislava 1999, 132 s. Bednár J., Zikmunda, O.: Fyzika mezní vrstvy atmosféry. Academia, Praha 1985, 248 s. Yournal „Boundary Layer Meteorology“ Contributions in the foreign special and scientific yournals	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers: doc. RNDr. Martin Gera, PhD., RNDr. Ingrid Damborská, CSc.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFI.KAFZM/3-FEN-009/15	Course title: Chemical Pollution of Air, Water and Soil
Educational activities: Type of activities: lecture Number of hours: per week: 3 per level/semester: 42 Form of the course: on-site learning, distance learning	
Number of credits: 8	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers: prof. RNDr. Zdenko Machala, DrSc., RNDr. Martin Kremler, PhD.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-003/10	Course title: Climate Change, Their Causes and Consequences
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: prof. RNDr. Milan Lapin, CSc.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023							
University: Comenius University Bratislava							
Faculty:							
Course ID: FMFL.KJP/3-MXX-101/15				Course title: Course of English for PhD Studies (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning							
Number of credits: 5							
Recommended semester: 1.							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution Total number of evaluated students: 200							
A	ABS	B	C	D	E	FX	NEABS
42,0	53,5	0,5	0,0	0,0	2,0	0,0	2,0
Lecturers: PhDr. Alena Zemanová, Mgr. Simona Tomášková, PhD.							
Last change: 20.06.2022							
Approved by:							

COURSE DESCRIPTION

Academic year: 2022/2023							
University: Comenius University Bratislava							
Faculty:							
Course ID: FMFI.KJP/3-MXX-102/15				Course title: Course of English for PhD Studies (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning							
Number of credits: 5							
Recommended semester: 2.							
Educational level: III.							
Prerequisites: FMFI.KJP/3-MXX-101/15 - Course of English for PhD Studies (1)							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution Total number of evaluated students: 193							
A	ABS	B	C	D	E	FX	NEABS
45,6	48,7	0,0	0,0	0,0	0,0	0,0	5,7
Lecturers: PhDr. Alena Zemanová, Mgr. Simona Tomášková, PhD.							
Last change: 20.06.2022							
Approved by:							

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-203/10	Course title: Department Seminar (1)
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning, distance learning	
Number of credits: 4	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-204/10	Course title: Department Seminar (2)
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning, distance learning	
Number of credits: 4	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-205/10	Course title: Department Seminar (3)
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning, distance learning	
Number of credits: 4	
Recommended semester: 3.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 2	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-206/10	Course title: Department Seminar (4)
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning, distance learning	
Number of credits: 4	
Recommended semester: 4.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-705/10	Course title: Development of Novel Software Product Linked with PhD Project
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 4	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-990/15	Course title: Dissertation Thesis Defense
Number of credits: 30	
Recommended semester: 7., 8..	
Educational level: III.	
State exam syllabus:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-008/15	Course title: Energy Resources and Environment
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning	
Number of credits: 6	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: prof. RNDr. Pavel Povinec, DrSc., doc. RNDr. Jaroslav Staníček, PhD., RNDr. Alexander Šivo, PhD.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-011/15	Course title: English Seminar on Environment
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: prof. RNDr. Jozef Masarik, DrSc., prof. RNDr. Pavel Povinec, DrSc.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-013/15	Course title: Environmental Biophysics
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 3	
ABS	NEABS
100,0	0,0
Lecturers: prof. RNDr. Melánia Babincová, DrSc.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-002/10	Course title: Environmental Systems Interactions
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements: Scale of assessment (preliminary/final): 0/100	
Learning outcomes: Knowledge of the latest knowledge in the field of environmental systems and their interactions - experimental and model approach	
Class syllabus: Structure of environmental compartments. Atmosphere, biosphere, hydrosphere. Diffusion and convection between environmental systems. Equilibrium and nonequilibrium states in environmental systems. Disruption of states of equilibrium, climate change. Global cycles in nature and their computer modeling. Compartmental models and diffusion models.	
Recommended literature: Principles of environmental physics / John Monteith, Mike Unsworth. Burlington : Academic press, 2008 • Selection of the actual articles from field of interest	
Languages necessary to complete the course: slovak, english	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers: doc. RNDr. Jaroslav Staníček, PhD., doc. RNDr. Ivan Sýkora, PhD.	
Last change: 20.06.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-004/15	Course title: Experimental Methods in Environmental Physics
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements: Examination: written and oral examination. Indicative evaluation scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completing the course, students will gain an overview of experimental methods applicable in environmental physics and their practical application in solving real problems.	
Class syllabus: Sampling methods. Low-level methods for environmental radioactivity. Determination of depth profiles of radionuclides. In situ gamma spectrometry. Mass spectrometry. Methods for the detection of radon isotopes-soil, water, outdoor atmosphere and living quarters. Integral and continuous radionuclide monitoring methods. Methods for the determination of isotopes of uranium, thorium, radium and lead.	
Recommended literature: Mass spectrometry : Principles and applications / Edmond de Hoffmann, Vincent Stroobant. Chichester : John Wiley, 2007 Radioactive aerosols / Constantin Papastefanou. Amsterdam : Elsevier, 2008 Analysis of environmental radionuclides / editor Pavel P. Povinec. Amsterdam : Elsevier, 2008 Measurement of radon and radon daughters in air. NCRPM, 1988	
Languages necessary to complete the course: Slovak, English	
Notes:	
Past grade distribution Total number of evaluated students: 2	
ABS	NEABS
100,0	0,0

Lecturers: doc. RNDr. Karol Holý, CSc., doc. RNDr. Ivan Sýkora, PhD.
Last change: 22.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-703/10	Course title: Home Project Co-researcher
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 4	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 3	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-301/10	Course title: Independent Research (1)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 5	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-302/10	Course title: Independent Research (2)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-303/10	Course title: Independent Research (3)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 3.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 3	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-304/10	Course title: Independent Research (4)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 15	
Recommended semester: 4.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 3	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-305/10	Course title: Independent Research (5)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 15	
Recommended semester: 5.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 2	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-306/10	Course title: Independent Research (6)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 15	
Recommended semester: 6.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 2	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-307/10	Course title: Independent Research (7)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 15	
Recommended semester: 7.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-101/15	Course title: Individual Study of Science and Research Resources (1)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 5	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-102/15	Course title: Individual Study of Science and Research Resources (2)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 5	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 3	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-103/15	Course title: Individual Study of Science and Research Resources (3)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 5	
Recommended semester: 3.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 3	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-104/15	Course title: Individual Study of Science and Research Resources (4)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 5	
Recommended semester: 4.	
Educational level: III.	
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	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-702/10	Course title: International Project Co-researcher
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-704/10	Course title: Introduction of Novel Experimental Method Linked with PhD Project
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 4	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFI.KJFB/3-FEN-006/10	Course title: Isotopic Technologies and Tracers in Environmental Studies
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 3 / 1 per level/semester: 42 / 14 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: The evaluation of the course will be in the form of an oral exam, its successful completion reflects the sufficient orientation of the student in the covered topics. The course will be classified provided that the PhD student proves the fulfillment of obligations at the level of at least 51 %. The conditions for successful completion of the course are in accordance with the Study Regulations of the Faculty of Mathematics, Physics and Informatics.	
Learning outcomes: Students will gain knowledge about the applications of isotope tracers in environmental studies.	
Class syllabus: Stable and radioactive tracers. Principles of isotope fractionation. Isotope fractionation in the biosphere and hydrosphere. Preparation and analytical methods. Applications of radioactive isotopes in hydrology and in atmospheric studies. Study of the carbon cycle using isotopes. The role of isotopes in the observation of global climate change. Use of isotopes for testing of atmospheric models.	
Recommended literature: Analysis of environmental radionuclides / editor Pavel P. Povinec. Amsterdam: Elsevier, 2008; K. Froelich at al.: Environmental radionuclides: tracers and timers of terrestrial processes. Elsevier, 2010; W. G. Mook at al.: Environmental isotopes in the hydrological cycle. UNESCO/IAEA, 2000	
Languages necessary to complete the course: Slovak in combination with English (suggested readings in English)	
Notes:	
Past grade distribution Total number of evaluated students: 2	
ABS	NEABS
100,0	0,0

Lecturers: doc. RNDr. Karol Holý, CSc., RNDr. Martin Bulko, PhD.
Last change: 22.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-001/10	Course title: Modelling in Environmental Physics
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 1 / 3 per level/semester: 14 / 42 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: prof. RNDr. Jozef Masarik, DrSc.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-007/10	Course title: Nanotechnologies in Environmental Physics
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 2	
ABS	NEABS
100,0	0,0
Lecturers: prof. RNDr. Peter Babinec, CSc.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-701/10	Course title: Obtaining a University Grant
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-950/15	Course title: Passing Dissertation Examination
Number of credits: 20	
Recommended semester: 3., 4..	
Educational level: III.	
State exam syllabus:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-502/10	Course title: Presentation at a Home Conference
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 8	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-501/10	Course title: Presentation at an International Conference
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 15	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 3	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-010/10	Course title: Preservation of Total Environment
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning, distance learning	
Number of credits: 8	
Recommended semester: 3.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 2	
ABS	NEABS
100,0	0,0
Lecturers: doc. RNDr. Karol Hensel, PhD., Ing. Jakub Kaizer, PhD.	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-409/15	Course title: Publication in a Reviewed Periodical
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 15	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-408/15	Course title: Publication in an A-category Periodical
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 30	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-410/15	Course title: Response to a o1 and o2 Category Publication
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 6	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-005/10	Course title: Satellite Research of the Earth
Educational activities: Type of activities: seminar / lecture Number of hours: per week: 1 / 2 per level/semester: 14 / 28 Form of the course: on-site learning, distance learning	
Number of credits: 8	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: Mgr. Marián Jurášek	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-801/10	Course title: Supervising and Demonstrating Work (1)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-802/10	Course title: Supervising and Demonstrating Work (2)
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-012/15	Course title: Use of Accelerators in Environmental Research
Educational activities: Type of activities: laboratory practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning, distance learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers: doc. RNDr. Miroslav Jeřkovský, PhD., prof. RNDr. Pavel Povinec, DrSc.	
Last change: 17.06.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty:	
Course ID: FMFL.KJFB/3-FEN-808/15	Course title: Writing BSc or Diploma Thesis Assessment Protocol
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning	
Number of credits: 4	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers:	
Last change: 02.06.2015	
Approved by:	