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University: Comenius University in Bratislava					
Faculty:	Faculty:				
Course ID: FMFI.KJFB/3-FJF-034/15 Course title: Accelerator Ion Technologies					
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					
Number of credits: 10					
Recommended semester: 1.					
Educational level: III.	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. Pavel Povinec, DrSc., RNDr. Miroslav Ješkovský, PhD.					
Last change: 02.06.2015					
Approved by:					

University: Comenius University in Bratislava				
Faculty:				
Course ID: FMFI.KJFB/3-FJF-035/15 Course title: Advanced High Energy Physics				
Educational activities: Type of activities: independent work / lecture Number of hours: per week: 1 / 2 per level/semester: 14 / 28 Form of the course: on-site 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				
Lecturers: prof. RNDr. Stanislav Tokár, DrSc., Mgr. Pavol Bartoš, PhD.				
Last change: 02.06.2015				
Approved by:				

University: Comenius University in Bratislava

Faculty:

Course ID: Course title:

FMFI.KJFB/3-FJF-037/15 Advanced Nuclear Physics

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: 10

Recommended semester: 2.

Educational level: III.

Prerequisites:

Course requirements:

Evaluation during the semester: homeworks Final evaluation: written test and oral exam

Scale for final grades: A 90%, B 80%, C 70%, D 60%, E 50%

Learning outcomes:

The student gains more detailed knowledge of the nuclear physics topics, the structure of atomic nuclei and typical projects running nowadays.

Class syllabus:

Summary of nuclear models. Spherical shell model and nuclear excitations, Deformation of the nucleus, magnetic and electric moments of nuclei. Deformed shell model. Shape coexistence. Kollective excitations.

Nuclear isomers. Decay spectroscopy. Laser spectroscopy. Nuclear fission.

Selected topics for various topics. Neutron and proton halo. Influence of nuclear structure on astrophysical reactions. Proton and neutron dripline. Influence of closed-shell on the stability and decay of atomic nuclei. New magic numbers. Production and properties of superheavy elements. Chemistry of superheavy elements.

The complete fusion reaction and separation of reaction products. Transfer reactions. Nuclear fragmentation and separation of fragments. Radioactive-ion beam measurements. Post-acceleration of radioactive beams.

Recommended literature:

Nuclear structure from a simple perspective / R. F. Casten. Oxford : Oxford University Press, 2000

Introductory nuclear physics / Kenneth S. Krane. Hoboken: Wiley, 1988

Basic ideas and concepts in nuclear physics an introductory approach / Kris Heyde. Bristol:

Institute of Physics Publishing, 1999

Cyriel Wagemans, The Nuclear Fission Process, CRC Press, 1991

K.S. Krane, Introductory Nuclear Physics, John Wiley & Sons, 1988.

Languages necessary to complete the course:

Notes:

Past grade distribution				
Total number of evaluated students: 2				
ABS NEABS				
100,0	0,0			
Lecturers: doc. Mgr. Stanislav Antalic, PhD.				
Last change: 20.02.2020				
Approved by:				

University: Comenius University in Bratislava				
Faculty:				
Course ID: FMFI.KJFB/3-FJF-029/15 Course title: Advanced Sub-nuclear Physics				
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semes Form of the course: on-site le				
Number of credits: 10				
Recommended semester: 1.				
Educational level: III.				
Prerequisites:				
Course requirements:				
Learning outcomes:				
Class syllabus:				
Recommended literature:				
Languages necessary to compl	lete the course:			
Notes:				
Past grade distribution Total number of evaluated students	ents: 0			
ABS NEABS				
0,0				
Lecturers: prof. RNDr. Jozef M	Masarik, DrSc.			
Last change: 02.06.2015				
Approved by:				

University: Comenius University in Bratislava				
Faculty:				
Course ID: FMFI.KJFB/3-FJF-021/15 Course title: Advanced Theory of Nucleus				
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semes Form of the course: on-site le				
Number of credits: 10				
Recommended semester: 1.				
Educational level: III.				
Prerequisites:				
Course requirements:				
Learning outcomes:				
Class syllabus:				
Recommended literature:				
Languages necessary to comp	lete the course:			
Notes:				
Past grade distribution Total number of evaluated students	ents: 1			
ABS NEABS				
100,0 0,0				
Lecturers: prof. RNDr. Fedor Š	Simkovic, CSc.			
Last change: 02.06.2015				
Approved by:				

University: Comenius University	ty in Bratislava	
Faculty:		
Course ID: Course title: Category A Publication		
Educational activities: Type of activities: independer Number of hours: per week: 30 per level/semo Form of the course: on-site le	ester: 420	
Number of credits: 30		
Recommended semester: 3.		
Educational level: III.		
Prerequisites:		
Course requirements:		
Learning outcomes:		
Class syllabus:		
Recommended literature:		
Languages necessary to comp	lete the course:	
Notes:		
Past grade distribution Total number of evaluated stud	ents: 0	
ABS	NEABS	
0,0	0,0	
Lecturers:	<u> </u>	
Last change: 02.06.2015		
Approved by:		

University: Comenius University	University: Comenius University in Bratislava				
Faculty:	Faculty:				
Course ID: EMFI.KJFB/3-FJF-026/15 Course title: Computer Simulations in Radiation Physics					
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: 10					
Recommended semester: 1.					
Educational level: III.	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. Jozef M	Lecturers: prof. RNDr. Jozef Masarik, DrSc.				
Last change: 02.06.2015					
Approved by:					

University: Comenius University in Bratislava **Faculty: Course ID: Course title:** FMFI.KJP/3-MXX-101/15 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: 118 Α ABS В C D Е FX **NEABS** 71,19 24,58 0,0 3,39 0,0 0,0 0.85 0,0

Lecturers:	PhDr. Alena	Zemanová	

Last change: 22.02.2019

Approved by:

University: Comenius University in Bratislava

Faculty:

Course ID: Course title:

FMFI.KJP/3-MXX-102/15 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: 119

A	ABS	В	С	D	Е	FX	NEABS
73,95	19,33	0,0	0,0	0,0	0,0	0,0	6,72

Lecturers: PhDr. Alena Zemanová

Last change: 22.02.2019

Approved by:

University: Comenius University	ty in Bratislava		
Faculty:			
Course ID: MFI.KJFB/3-FJF-803/15 Creation of Teaching Texts and Aids			
Educational activities: Type of activities: independer Number of hours: per week: 5 per level/semes Form of the course: on-site le	iter: 70		
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 stud	ents: 0		
ABS NEABS			
0,0			
Lecturers:	<u> </u>		
Last change: 02.06.2015			
Approved by:			

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-203/15	Course title: Department Seminar (1)	
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semes Form of the course: on-site le		
Number of credits: 5		
Recommended semester: 1.		
Educational level: III.		
Prerequisites:		
Course requirements:		
Learning outcomes:		
Class syllabus:		
Recommended literature:		
Languages necessary to comp	lete the course:	
Notes:		
Past grade distribution Total number of evaluated stud	ents: 7	
ABS	NEABS	
100,0	0,0	
Lecturers:	<u> </u>	
Last change: 02.06.2015		
Approved by:		

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-204/15	Course title: Department Seminar (2)	
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semes Form of the course: on-site le		
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	ents: 0	
ABS	NEABS	
0,0		
Lecturers:	<u>.</u>	
Last change: 02.06.2015		
Approved by:		

University: Comenius University	ty in Bratislava
Faculty:	
Course ID: FMFI.KJFB/3-FJF-205/15	Course title: Department Seminar (3)
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semes Form of the course: on-site le	
Number of credits: 5	
Recommended semester: 3.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to comp	lete the course:
Notes:	
Past grade distribution Total number of evaluated stud	ents: 0
ABS	NEABS
0,0	0,0
Lecturers:	<u> </u>
Last change: 02.06.2015	
Approved by:	

University: Comenius Universi	ty in Bratislava
Faculty:	
Course ID: FMFI.KJFB/3-FJF-206/15	Course title: Department Seminar (4)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semes Form of the course: on-site le	
Number of credits: 5	
Recommended semester: 4.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to comp	lete the course:
Notes:	
Past grade distribution Total number of evaluated stud	ents: 0
ABS	NEABS
0,0	
Lecturers:	<u> </u>
Last change: 02.06.2015	
Approved by:	

University: Comenius University	ty in Bratislava
-	ty in Diatistava
Faculty:	
Course ID:	Course title:
FMFI.KJFB/3-FJF-023/15	Detection Technique and Monitoring Systems
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semes Form of the course: on-site le	
Number of credits: 10	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to comp	lete the course:
Notes:	
Past grade distribution Total number of evaluated stud	ents: 0
ABS	NEABS
0,0	0,0
Lecturers: doc. RNDr. Jaroslav	Staníček, PhD., doc. RNDr. Ivan Sýkora, PhD.
Last change: 02.06.2015	
Approved by:	

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-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:		

University: Comenius Universi	ty in Bratislava
Faculty:	
Course ID: FMFI.KJFB/3-FJF-033/15	Course title: English Seminar on Nuclear and Subnuclear Physics
Educational activities: Type of activities: seminar / le Number of hours: per week: 2 / 1 per level/ser Form of the course: on-site le	mester: 28 / 14
Number of credits: 10	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to comp	lete the course:
Notes:	
Past grade distribution Total number of evaluated stud	ents: 5
ABS	NEABS
100,0 0,0	
Lecturers: prof. RNDr. Pavel P	Povinec, DrSc., prof. RNDr. Jozef Masarik, DrSc.
Last change: 02.06.2015	
Approved by:	

University: Comenius University	ity in Bratislava
Faculty:	
Course ID: Course title: Guidance of a Project for the Students' Conference or of a Final Thesis	
Educational activities: Type of activities: other Number of hours: per week: 5 per level/semes Form of the course: on-site le	
Number of credits: 5	
Recommended semester: 4.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to comp	lete the course:
Notes:	
Past grade distribution Total number of evaluated stud	ents: 0
ABS	NEABS
0,0	
Lecturers:	
Last change: 02.06.2015	
Approved by:	

University: Comenius Universi	ty in Bratislava
Faculty:	
Course ID: FMFI.KJFB/3-FJF-111/15	Course title: Individual Study of Science and Research Resources (1)
Educational activities: Type of activities: independent Number of hours: per week: 10 per level/seme Form of the course: on-site level	ester: 140
Number of credits: 10	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to comp	lete the course:
Notes:	
Past grade distribution Total number of evaluated students	ents: 7
ABS	NEABS
100,0 0,0	
Lecturers:	
Last change: 02.06.2015	
Approved by:	

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-112/15	Course title: Individual Study of Science and Research Resources (2)	
Educational activities: Type of activities: independent Number of hours: per week: 10 per level/seme Form of the course: on-site le	ester: 140	
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	ents: 1	
ABS	NEABS	
100,0 0,0		
Lecturers:		
Last change: 02.06.2015		
Approved by:		

University: Comenius University	y in Bratislava	
Faculty:		
Course ID: FMFI.KJFB/3-FJF-701/15	Course title: Obtaining a Grant	
Educational activities: Type of activities: other Number of hours: per week: 20 per level/seme Form of the course: on-site le		
Number of credits: 20		
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	ents: 0	
ABS	NEABS	
0,0		
Lecturers:	·	
Last change: 02.06.2015		
Approved by:		

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava

Faculty:

Course ID:
FMFI.KJFB/3-FJF-950/15
Passing Dissertation Examination

Number of credits: 20

Recommended semester: 3., 4..

Educational level: III.

State exam syllabus:

Last change: 02.06.2015

Approved by:

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-402/15	Course title: Presentation at a Home Conference or at Department Seminar	
Educational activities: Type of activities: independent Number of hours: per week: 5 per level/semes Form of the course: on-site le	ster: 70	
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	ents: 0	
ABS	NEABS	
0,0		
Lecturers:		
Last change: 02.06.2015		
Approved by:		

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-401/15	Course title: Presentation at an International Conference	
Educational activities: Type of activities: independent Number of hours: per week: 20 per level/seme Form of the course: on-site le	ester: 280	
Number of credits: 20		
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	ents: 0	
ABS	NEABS	
0,0		
Lecturers:	·	
Last change: 02.06.2015		
Approved by:		

University: Comenius University	ty in Bratislava	
Faculty:		
Course ID: FMFI.KJFB/3-FJF-305/15	Course title: Publication in a Reviewed Periodical	
Educational activities: Type of activities: independer Number of hours: per week: 15 per level/semo Form of the course: on-site le	ester: 210	
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 stud	ents: 0	
ABS	NEABS	
0,0	0,0	
Lecturers:	·	
Last change: 02.06.2015		
Approved by:		

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-704/15	Course title: Response to a WoK- or SCOPU	JS-registered Publication
Educational activities: Type of activities: other Number of hours: per week: 3 per level/semes Form of the course: on-site le		
Number of credits: 6		
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	ents: 0	
ABS		NEABS
0,0		0,0
Lecturers:		
Last change: 02.06.2015		
Approved by:		

University: Comenius Univers	ty in Bratislava	
Faculty:		
Course ID: FMFI.KJFB/3-FJF-702/15	Course title: Scientific Project Co-researcher	
Educational activities: Type of activities: independent Number of hours: per week: 10 per level/seme Form of the course: on-site level.	ester: 140	
Number of credits: 10		
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 stud	ents: 0	
ABS	NEABS	
0,0	0,0	
Lecturers:	·	
Last change: 02.06.2015		
Approved by:		

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-025/15	Course title: Selected Topics in Radiation Physics	
Educational activities: Type of activities: lecture Number of hours: per week: 3 per level/semes Form of the course: on-site le		
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 stud	ents: 0	
ABS	NEABS	
0,0	0,0	
Lecturers: doc. RNDr. Karol Holý, CSc., RNDr. Radoslav Böhm, PhD.		
Last change: 02.06.2015		
Approved by:		

University: Comenius University	ity in Bratislava	
Faculty:		
Course ID: FMFI.KJFB/3-FJF-036/15	Course title: Subnuclear Physics Experiment Modelling and Data Analysis	
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semes Form of the course: on-site le		
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 stud	ents: 6	
ABS	NEABS	
100,0	0,0	
Lecturers: prof. RNDr. Stanisla	av Tokár, DrSc.	
Last change: 02.06.2015		
Approved by:		

University: Comenius University in Bratislava			
Faculty:			
Course ID: FMFI.KJFB/3-FJF-802/15	Course title: Teaching Practice in the Summer Semester		
Educational activities: Type of activities: other Number of hours: per week: 8 per level/semester: 112 Form of the course: on-site 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: 0			
ABS	NEABS		
0,0	0,0		
Lecturers:			
Last change: 02.06.2015			
Approved by:			

University: Comenius University in Bratislava		
Faculty:		
Course ID: FMFI.KJFB/3-FJF-801/15	Course title: Teaching Practice in the Winter Semester	
Educational activities: Type of activities: other Number of hours: per week: 4 per level/semester: 56 Form of the course: on-site 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: 3		
ABS	NEABS	
100,0	0,0	
Lecturers:		
Last change: 02.06.2015		
Approved by:		