CONTENT

1. Acquirement of Internal Grant	2
2. Author's patents, discoveries, software	3
3. Citation in monograph	
4. Citation in scientific journal published abroad	
5. Citation in scientific journal published in the country of residence	
6. Citation registered in Science Citation Index.	
7. Co-worker of project supported by international grant schemes	8
8. Co-worker of project supported by national grant schemes	
9. Computational Physics	
10. Defence of Doctoral Thesis.	
11. Dissertation examination	13
12. Elaboration of reviewer report	
13. English Language for PhD Students 1	
14. English Language for PhD Students 2	
15. Exactly Solved Models in Statistical Physics	
16. Home Conference with Foreign Participation	
17. International Conference.	
18. Journals Registered by Current Contets Database	
19. Journals not registered in the Current Contents Connect database and published abroad	
20. Journals not registered in the Current Contents Connect database and published in the court	
residence.	24
21. Journals registered in the Current Contents Connect database and published in the country	
residence	
22. Mathematical Methods in Theoretical Physics	
23. National Conference	28
24. Non-reviewed collections of papers and monographs published abroad or in the country of	
residence	
25. Pedagogy for university teachers	
26. Presentation in Seminar	
27. Psychology for University Lecturers.	
28. Quantum Field Theory	
29. Quantum Theory of Many-Body Systems	
30. Quantum-Statistical Methods for Strongly-Correlated Systems	
31. Reviewed Proceedings.	
32. Selected Topics from Theoretical Physics	
33. Selected Topics of Condensed Mattter Theory	
34. Self-motivated Study on Scientific Literature	
35. Spring School for PhD Students	
36. Statistical Physics.	
37. Study Stay Abroad	
38. Supervision of Student's Scientific Activity	
39. Supervisor/consultant of bacelor thesis.	
40. Teaching activities	
41. Teaching activities	
42. Theory and Phenomenology Elementary Particles.	
43. Vybrané kapitoly z kvantovej teórie poľa	
44. Work in Organizing Committee of Conference	
45. Writing Dissertation Work	
10. HIIVII DIUUTIMIUI HUIK	5 1

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚFV/ IG/04	1		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS cr			
	ster/trimester of the course	2:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 130			
	abs		
100.0 0.0			
Provides:	Provides:		
Date of last modification:			
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ PVS/04			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 38		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ CM/04			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 1		
	abs		
100.0 0.0			
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ CZC/04			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	Conditions for course completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 67		
	abs		
100.0 0.0			
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ CDC/04			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.	,		
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 4		
abs			
100.0 0.0			
Provides:			
Date of last modifica	ntion:		
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚFV/ SCI/04	8		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS cr	edits: 20		
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 227		
	abs		
100.0 0.0			
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚFV/ SMPR/04				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr				
	ster/trimester of the course	2:		
Course level: III.				
Prerequisities:				
Conditions for cours	Conditions for course completion:			
Learning outcomes:				
Brief outline of the c	course:			
Recommended litera	nture:			
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 98				
abs n				
	100.0 0.0			
Provides:				
Date of last modification:				
Approved:				

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ SDPR/04	T J T T T T T T T T T T T T T T T T T T		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:		
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 527		
	abs n		
	100.0 0.0		
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | **Course name:** Computational Physics

POCF/13

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: 4 Per study period: 56

Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course: 2.

Course level: III.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

To acquaint students with modern methods of computational physics and their application to different physical systems.

Brief outline of the course:

Brief outline of the course:

- 1. Modern Monte Carlo methods targeted for problematic complex systems with multimodal energy surfaces. Multicanonical methods. Parallel tempering (replica exchange) method. Calculation of density of states and free energy by using Wang-Landau method.
- 2. Molecular Dynamics. Hybrid Monte Carlo method and spin dynamics. Langevin equations. Cellular automata of lattice gas. Quantum Monte Carlo simulations of lattice systems based on Suzuki-Trotter relation. Ising model in transversal field. Anisotropic Heisenberg chain. Monte Carlo Renormalization Group (MCRG) methods. Mao and Swendsen method. Problems of dynamics.
- 3. Other models and applications. Fitting data with linear models. Pattern recognition. Recurrent neural networks and time series prediction. Hebbian learning. Principal component analysis. Stochastic signal processing. Simulations of neural networks. Socio-physical models motivated by spin models. Galam models. Voter model in hierarchical systems. Model of group decision making. The opinion dynamics. Sznajd model and its applications.

Recommended literature:

- 1. J.C. Principe, N.R. Euliano, Neural and adaptive systems, John Wiley & Sons. INC., New York, 2000.
- 2. K. Binder, D.W. Heermann, Monte Carlo simulation in statistical physics, Springer-Verlag, Berlin, 2002.
- 3. J.M. Haile, Molecular dynamics simulations, John Wiley & Sons. INC., New York, 1992.
- 4. N.G van Kampen, Stochastic processes in physics and chemistry, North-Holland, 1990.
- 5. B.K. Chakrabarti, A. Chakraborti, A. Chatterjee (Editors), Econophysics and sociophysics: Trends and perspectives, Wiley-VCH, 2006.

Course language:

Notes:		
Course assessment Total number of assessed students: 11		
N P		
0.0 100.0		
Provides: prof. RNDr. Milan Žukovič, PhD.		
Date of last modification: 25.09.2017		
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ ODZP/14	Course name: Defence of	Doctoral Thesis	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the cours	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 94		
	N P		
0.0 100.0			
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ DZS/14			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 20			
Course level: III.	ster/trimester of the cours	e:	
Prerequisities:			
Conditions for cours	ee completion: umber of credits as given by	the study plan.	
Learning outcomes: Evaluation of compet	tences of the student accordi	ng to his/her scientific profile.	
answering questions compulsory and one the program according	esults in the thesis for diser of exam committee. Two optional subject, respective	tation exam, responding to referee's comments, questions are selected subsequently from one rely. The subjects are selected by guarantee of entific profile of the student. The third question in thesis.	
Recommended litera	Recommended literature:		
Course language: english			
Notes:			
Course assessment Total number of assessed students: 117			
	N P		
	0.0 100.0		
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ VPBP/04	Course name: Elaboration	on of reviewer report	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 2		
	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 20		
	abs	n	
	100.0	0.0	0
Provides:		1	
Date of last modifica	ation:		
Approved:			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Course n

AJD1/07

Course name: English Language for PhD Students 1

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1.

Course level: III.

Prerequisities:

Conditions for course completion:

Written assignments - professional CV, short academic biography (200-350 words).

distance mode of instruction using MS teams

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 654

N	Ne	P	Pr	abs	neabs
0.0	0.0	51.38	0.0	48.62	0.0

Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 11.02.2021

Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ | Course name: English Language for PhD Students 2

AJD2/07

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 2.

Course level: III.

Prerequisities:

Conditions for course completion:

Distance mode of instruction. Online consultations.

Test, oral exam in accordance with the exam requirements (https://www.upjs.sk/filozoficka-fakulta/cjp/doktorandi-upjs/)

Learning outcomes:

Development of students' language skills, improvement of students' linguistic competencies (selected aspects of English pronunciation, vocabulary and syntax), development of students's pragmatic competence (selected aspects of functional grammar) with focus on English for academic and specific purposes. B2/C1 level of lanuage competence (according to CEFR.)

Brief outline of the course:

Specific aspecs of academic and professional English with focus on vocabulary development (noun and verb collocations, phrasal verbs, prepositional phrases, word-formation, formal/informal language, etc.), selected aspects of English grammar (prepositions, grammar tenses, passive voice, etc.), selected functional grammar (expressing opinion, cause/effect, arguments, examples, etc.). Academic communication. Cross-language interference.

Recommended literature:

Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2015

McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008

Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011

Blašková, K.: Handbook of English for Postgraduate Students. Vyd. SPRINT Bratislava, 2007

Dušková, L. a kol.: Hovorová angličtina pre vedeckých a odborných pracovníkov. Veda.

Bratislava, 1982

Armer, T.: Cambridge English for Scientists. CUP, 2011

Porter, D.: Check your vocabulary for Academic English. Macmillan Publishers Limited, 2008

Oxford Collocations Dictionary for students of English. OUP, 2002

lms.upjs.sk

Course language:

B2/C1 level acc	cording to CEFR				
Notes:					
Course assessm Total number of	nent f assessed studen	ts: 649			
N	Ne	Р	Pr	abs	neabs
0.31	0.0	93.07	1.23	5.39	0.0
Provides: PhDr	. Helena Petruňo	vá, CSc., Mgr. Z	uzana Kolaříková	i, PhD.	•
Date of last modification: 10.02.2021					
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Exactly Solved Models in Statistical Physics

ERS/13

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: 4 Per study period: 56

Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course: 4.

Course level: III.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

To become familiar with selected exactly solved models in statistical physics and to gain a deeper understanding of physical phenomena explained by these exactly solved models.

Brief outline of the course:

- 1. Exact solution for one-dimensional quantum Ising chain and quantum XY chain in a transverse magnetic field. Jordan-Wigner, Fourier and Bogoliubov transformations. Quantum critical points and anomalous behaviour of quantities in their close vicinity.
- 2. Exact solution for one-dimensional quantum Heisenberg chain within the framework of second-quantization formalism, the introduction to Bethe ansatz method. Elementary excitation spectrum, free and bound states of the Heisenberg model with two spin deviations.
- 3. Two-dimensional Ising model: dual transformation, star-triangle transformation, decoration-iteration transformation and theory of generalized algebraic transformations. Critical temperatures and universality in critical behaviour. The formulation of exact solution through the transfer-matrix method. Two-dimensional Ising model as model of binary alloys, and lattice model of liquid mixtures, Frenkel-Louis and Lin-Taylor model.

The selection from aforedescribed topics is made by the supervisor according to scientific orientation of the dissertation thesis.

Recommended literature:

- 1. R.J. Baxter, Exactly Solved Models in Statistical Mechanics, Academic, New York, 1989.
- 2. J.B. Parkinson, D.J.J. Farnell, An Introduction to Quantum Spin Systems, Lecture Notes in Physics 816, Springer, Berlin, 2010.
- 3. D.C. Mattis, The Many-Body Problem, World Scientific, Singapore, 1993.
- 4. F.Y. Wu, Exactly Solvable Models, World Scientific, Singapore, 2008.
- 5. D.A. Lavis, G.M. Bell, Statistical Mechanics of Lattice Systems, Volume 1, Springer, Berlin, 1999.
- 6. B. Nachtergaele, J.P. Solovej, J. Yngvason, Condensed Matter Physics and Exactly Soluble Models, Selecta of E. H. Lieb, Springer, Berlin, 2004.

7. J. Strečka, Exactly Solvable Models in Statistica NP1-051 11230100466, Košice, 2008.	al Physics, supportive textbook, ESF 2005/
Course language: EN - english	
Notes:	
Course assessment Total number of assessed students: 12	
N	P
0.0	100.0
Provides: doc. RNDr. Jozef Strečka, PhD.	
Date of last modification: 03.05.2015	
Approved:	

University: P. J. Šaf	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚFV/ DKZU/04	Course name: Home Cor	ference with Foreign Participation
Course type, scope Course type: Recommended con Per week: Per stu Course method: p	urse-load (hours): dy period: resent	
Number of ECTS c		
	ester/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cour	rse completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended liter	rature:	
Course language:		
Notes:		
Course assessment Total number of ass	essed students: 303	
	abs	n
	100.0	0.0
Provides:		
Date of last modific	eation:	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ MK/04	Course name: Internation	al Conference	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cours	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 426		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚFV/ ZKC/04	Course name: Journals Re	gistered by Current Contets Database
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 20	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 496	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion:	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚFV/ ZNC/04			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ester/trimester of the course	2:	
Course level: III.			
Prerequisities:	-		
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 54		
	abs	n	
100.0 0.0			
Provides:			
Date of last modification:			
Approved:			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚFV/ DNC/04	Course name: Journals no database and published in t	t registered in the Current Contents Connect he country of residence
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the cours	e:
Course level: III.	,	
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	nture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 23	
	abs	n
100.0 0.0		
Provides:		
Date of last modifica	ntion:	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ DKC/04	Course name: Journals regard published in the countr	gistered in the Current Contents Connect database y of residence	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cours	e : 	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 8		
	abs	n	
	100.0 0.0		
Provides:			
Date of last modifica	ntion:		
Approved:			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Mathematical Methods in Theoretical Physics

MMTF/13

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: 4 Per study period: 56

Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course: 1.

Course level: III.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

Improve the students in the use of mathematical methods in theoretical physics.

Brief outline of the course:

1. Differential equations of mathematical physics. Generalized functions. Delta function. Differential calculus of generalized functions. Fourier series of delta functions. Green's function for one-dimensional boundary value problems. Green's function for

Poisson's equation. Differential calculus in the plane. Two-dimensional delta function.

- 2. Complex analysis. Complex functions. Complex differentiation. Power series and analyticity. Harmonic functions. Applications in fluid mechanics. Complex integration. Cauchy theorem. Cauchy integral formula. Differentiation through integration. Analytical continuation to the plane and space.
- 3. Conformal mapping. Analytical maps. Conformality. Composition and Riemann mapping theorem. Anular domain. Applications of conformal mapping. Applications of harmonic functions and Laplace's equation. Applications in fluid flow. Poisson's equation and Green's function. Transformations and convolution.

Recommended literature:

- 1. E. Kreyszig, Advanced engineering mathematics, Wiley&Sons, New York, 1983.
- 2. M.L. Boas, Mathematical methods in the physical sciences, Wiley, New York, 2006.
- 3. K.F. Riley, M.P. Hobson, S.J. Bence, Mathematical methods for physics and engineering, Cambridge University Press, Cambridge, 2006.
- 4. K.F. Riley, M.P. Hobson, Student solutions manual for Mathematical methods for physics and engineering, Cambridge University Press, Cambridge, 2006.
- 5. H.F. Weinberger, A first course in partial differential equations, Willey&Sons, N.Y., 1965.
- 6. V.J. Arsenin, Matematická fyzika, Alfa, Bratislava, 1977.
- 7. P. J. Olver, Introduction to partial differential equations, 2012, http://www.math.umn.edu/~olver/pdn.html.
- 8. F.W.J. Olver, D.W. Lozier, R.F. Boisvert, C.V. Clark, NIST Handbook of mathematical functions, Cambridge University Press, Cambridge, 2010.

Course language:	
Notes:	
Course assessment	
Total number of assessed students: 4	
N	P
0.0	100.0
Provides: prof. RNDr. Milan Žukovič, PhD., RN	Dr. Tomáš Lučivjanský, PhD.
Date of last modification: 03.05.2015	
Approved:	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ DK/04	Course name: Nationa	l Conference	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the co	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 143		
	abs	n	
	100.0	0.0	
Provides:		•	
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚFV/ NZ/04	Course name: Non-revieupublished abroad or in the	ewed collections of papers and monographs e country of residence
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent	
Number of ECTS cr	redits: 2	
Recommended seme	ster/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 109	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	ntion:	
Approved:		

University: P. J. Šafá	rik University in Koši	ce	
Faculty: Faculty of S	cience		
Course ID: KPE/ PgVU/17	Course name: Pedag	ogy for universi	ty teachers
Course type, scope a Course type: Lectur Recommended course week: Per stud Course method: pre	re rse-load (hours): y period: 28s esent		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the	course:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 33		
abs		n	neabs
100.0		0.0	0.0
Provides: doc. PaedD	Pr. Renáta Orosová, Ph	D.	
Date of last modifica	tion: 08.06.2021		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ VYS/04	Course name: Presentatio	n in Seminar	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cours	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 369		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Psychology for University Lecturers

KPPaPZ/PsVU/17

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: Per study period: 28s

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

University teacher and his work in the teaching process with a focus on:

teacher in relation to himself (cognitive, personality, social competencies and competencies in the use of methods), in relation to students and as part of the teacher-student relationship based on selected areas of cognitive psychology, psychology of emotions and motivation, developmental psychology, social psychology , educational psychology and health psychology with application to the university environment.

Recommended literature:

Alexitch, L. R. (2005). Applying social psychology to education. Social Psychology.–Ed.:

Schneider F., Gruman J., Coutts L.-Sage Publications, Inc, 205-228.

Fry, H., Ketteridge, S., & Marshall, S. (2008). A handbook for teaching and learning in higher education: Enhancing academic practice. Routledge.

Mareš, J.: Pedagogická psychologie. Portál, 2013.

Kniha psychologie. Universum, 2014

Čáp, J., Mareš, J.: Psychologie pro učitele. Praha: Portál 2007.

Vágnerová, M.: Školní poradenská psychológie pro pedagogy. Praha: Karolínum 2005.

Course language:

Notes:

Course assessment

Total number of assessed students: 37

abs	n	neabs
100.0	0.0	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 28.06.2021

Approved:

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ KTP/13	Course name: Quantum Field Theory
Course type, scope a Course type: Lectur Recommended cou Per week: 4 Per stu Course method: pre	re rse-load (hours): idy period: 56
Number of ECTS cr	edits: 8
Recommended seme	ster/trimester of the course: 2.
Course level: III.	
Prerequisities:	
Conditions for cours Examination	se completion:
Learning outcomes: To acquaint with que particles and statistic	antum field theory methods and their application in theory of elementary al physics.
diagrammatic technic 2. Application of qua- theories of elementar 3. Application of qua 4. Critical dynamics technique and renorn	Igrange formalism, interacting quantum fields, Wick theorems and Feynman que, higher orders of perturbation theory. Intum field theory in the theory of elementary particles: standard model, unified y particles. Intum field theory in statistical physics. Feynman diagrams. and description of scaling at phase transitions by means of quantum-field
2.A. Zee, Quantum F 3. P. Ramond, Field A. Zinn-Justin J., Qua 5. W. Greiner, J. Reir 6. W. Greiner, J. Reir 7. W. Greiner, S. Sch 8. A.N. Vasiliev, The	um Field Theory, Cambridge University Press, Cambridge, 1996. Field Theory in Nutshell, Princeton University Press, Princeton, 2010. Theory: A Modern Primer, Westview Press, 1990. Intum Field Theory and Critical Phenomena, Claredon Press, Oxford, 2004. Inhardt, Field Quantization, Springer, Berlin, 1996. Inhardt, Quantum Electrodynamics, Springer, Berlin, 2009. Iramm, E. Stein, Quantum Chromodynamics, Springer, Berlin, 2007. Field Theoretic Renormalization Group in Critical Behavior Theorymics, Chapman & Hall/CRC Press Company Boca Raton, London, 2004.
Course language:	

Notes:

Course assessment	
Total number of assessed students: 7	
N	P
0.0	100.0
Provides: prof. RNDr. Michal Hnatič, DrSc.	
Date of last modification: 03.05.2015	
Approved:	

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ KTMS/04	Course name: Quantum Theory of Many-Body Systems
Course type, scope a Course type: Lectur Recommended course week: 4 Per stu Course method: pre	re rse-load (hours): idy period: 56
Number of ECTS cr	edits: 8
Recommended seme	ster/trimester of the course: 3.
Course level: III.	
Prerequisities:	
Conditions for cours Examination	se completion:
Learning outcomes:	
many-body systems. model. Second quar density matrix renorm 2. Green functions. Some non-linear processes Kubo-Greenwood for 3. Non-linear equation Schrodinger equation	of magnetism. Ferromagnetic, ferrimagnetic and antiferromagnetic quantum Theoretical model of quantum magnetism - Heisenberg, XY and Hubbard ntization, Jordan-Wigner, Bogolubov and Dyson-Maleeev transformation,
Recommended litera	
 S. Sachdev, Quant S. V. Tjablikov, M H. Haken, Quanter P.M. Morse, H. Fe 	racting Electrons and Quantum Magnetism, Springer, New York, 1994. The plant of Magnetism, Plenum, New York, 1967. The plant of Magnetism of Magnetism, Plenum, New York, 1967. The plant of Magnetism of Magnetism, Plenum, New York, 1967. The plant of Magnetism of Magnetism of Magnetism, Plenum, New York, 1967. The plant of Magnetism of Magnetism of Magnetism of Magnetism of Magnetism, Plenum, New York, 1967. The plant of Magnetism
Course language:	

Notes:

Course assessment Total number of assessed students: 11			
N	P		
0.0 100.0			
Provides: doc. RNDr. Peter Kopčanský, CSc., RNDr. Pavol Farkašovský, DrSc., prof. RNDr. Michal Jaščur, CSc.			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Quantum-Statistical Methods for Strongly-Correlated

SAVKSM/13 Systems

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: 4 Per study period: 56

Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course: 2.

Course level: III.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

To improve student knowledge for employing analytical and numerical methods in the theory of many-particle systems.

Brief outline of the course:

Introduction to microscopic models of strongly correlated many-particle systems and their basic properties. Terminology, second quantization, fermions, bosons.

Analytical methods: method of canonical transformations, Bogoliubov transformation, perturbation theory, variational principle. Exact solution for Hubbard and Anderson model, Bethe ansatz method. Green function method, Heisenberg, Schrödinger, iteration reprezentation, S-matrix, Wick theorem, Feynman's diagrams.

Numerical methods: exact diagonalization, Lanczos algorithm, modified Lanczos method, variational Monte Carlo technique, density matrix renormalization group.

The selection from aforedescribed topics is made by the supervisor according to scientific orientation of the dissertation thesis.

Recommended literature:

- 1. P. Fazekas, Lecture Notes on Electron Correlation and Magnetism, World Scientific, 1999.
- 2. F.H.L. Essler, H. Frahm, F. Gohmann, A. Klumper, V.E. Korepin, The One-Dimensional Hubbard Model, Cambridge University Press, Cambridge, 2005.
- 3. A. Montorsi, The Hubbard Model, World Scientific, Singapore, 1992.
- 4. H. Haken, Kvantovopoľová teória tuhých látok, Alfa, Bratislava, 1987.
- 5. S. Doniach, E. H. Sondheimer, Green's Functions for Solid State Physicists, W. A. Benjamin, Inc., Massachusetts, 1974.
- 6. C.P. Enz, A Course on Many-Body Theory, World Scientific, Singapore, 1998.
- 7. M.E.J. Newman, G.T. Barkema, Monte Carlo Methods in Statistical Physics, Clarendon Press, Oxford, 1999.
- 8. S. R. White, Physics Reports 301 (1998) 187-204.
- 9. P. Farkašovský, H. Čenčariková, Kooperatívne javy v sústavách silne korelovaných fermiónov, Slovenská fyzikálna spoločnosť, Košice, 2011. (in Slovak)

Course language:		
Notes:		
Course assessment Total number of assessed students: 6		
N	P	
0.0 100.0		
Provides: RNDr. Pavol Farkašovský, DrSc.		
Date of last modification: 03.05.2015		
Approved:		

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚFV/ RZ/04	Course name: Reviewe	d Proceedings		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent			
Number of ECTS cr	edits: 5			
Recommended seme	ster/trimester of the cou	ırse:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	ture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 235			
	abs n			
100.0 0.0				
Provides:				
Date of last modifica	tion:			
Approved:				

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ **Course name:** Selected Topics from Theoretical Physics VKTF/15 Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 4 Per study period: 56 Course method: present **Number of ECTS credits: 8** Recommended semester/trimester of the course: 1. Course level: III. **Prerequisities: Conditions for course completion:** Examination **Learning outcomes:** To enhance knowledge of students in Theoretical Physics The emphasis is put on basic principles and universally applicable techniques. **Brief outline of the course:** 1. Lagrange's and Hamilton's equations. Canonical transformations. Hamilton-Jacobi equation. 2. Relativistic quantum mechanics. Klein-Gordon and Dirac equations. Angular momentum operator, spin and spinors. 3. Ideal Fermi and Bose gases. Degenerate electron gas. Magnetism of an electron gas. Relativistic degenerate electron gas. Degenerate Bose gas. **Recommended literature:** 1. W.Greiner, Classical Mechanics, Systems of Particles and Hamiltonian Dynamics, Springer, Berlin, 2010. 2. W. Greiner, Relativistic Quantum Mechanics, Springer, Berlin, 2000. 3. R.K. Pathria, P. D. Beale, Satistical Mechanics, Elsevier, Amsterdam, 2011. Course language: 1. Slovak, 2. English **Notes:** Course assessment Total number of assessed students: 12 P N 0.0 100.0

Provides: prof. RNDr. Michal Jaščur, CSc., prof. RNDr. Andrej Bobák, DrSc., doc. RNDr. Jozef Strečka, PhD.

Date of last modification: 03.05.2015

_			
A			
Approved:			
11ppiorca.			
1 1			

University: P. J. Šafa	árik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚFV/ VKTKL/15	T		
Course type, scope : Course type: Lectu Recommended cou Per week: 2 Per st Course method: pr	re urse-load (hours): udy period: 28 resent		
Number of ECTS c			
	ester/trimester of the cou	rse: 3.	
Course level: III.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes			
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 6		
	N	P	
	0.0 100.0		
Provides: prof. RND	Or. Michal Jaščur, CSc.		
Date of last modific	ation: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚFV/ SSOL/04			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 186			
	N	P	
	0.0 100.0		
Provides:			
Date of last modification:			
Approved:	Approved:		

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: Dek. PF UPJŠ/JSD/14	Course ID: Dek. PF Course name: Spring School for PhD Students UPJŠ/JSD/14			
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: pre	re rse-load (hours): y period: 4d esent			
Number of ECTS cr				
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	ture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 154				
abs n				
100.0 0.0				
Provides: doc. RNDr. Marián Kireš, PhD.				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ **Course name:** Statistical Physics

STATF/13

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: 4 Per study period: 56

Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course: 1.

Course level: III.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

To acquaint students with a modern theory of phase transitions, nonequilibrium thermodynamics and modern statistical physics of macromolecules.

Brief outline of the course:

- 1. Phase transitions and critical phenomena. Critical indices. Universality. Static scaling hypothesis. Kadanoff block spins. Theory of the renormalization group. Phase diagrams and fixed points. The perturbative renormalization group. Random systems.
- 2. Nonequilibrium statistical thermodynamics. Equilibrium and nonequilibrium processes. Linear nonequilibrium thermodynamics. Phenomenological equations and Onsager relations. Fluctuation dissipation theorem. Kinetic theory. Master equation, Boltzmann equation, Langevin equation and Fokker-Planck equation.
- 3. Statistical physics of macromolecules. Thermodynamics properties of polymer solutions and mixtures. Polymer gels. Molecular motion of the polymeric systems

 Selection from this topics makes supervisor depending on the scope of the dissertation.

Recommended literature:

- 1. M. Plischke, B. Bergersen, Equilibrium Statistical Physics, World Scientific, Singapore, 2006.
- 2. S.K. Ma, Statistical Mechanics, World Scientific, Singapore, 1993.
- 3. L.P. Kadanoff, Statistical Physics: Statics, Dynamics and Renormalization, World Scientific, Singapore, 2000.
- 4. J. Cardy, Scaling and Renormalization in Statistical Physics, Cambridge, 2002.
- 5. S.R. de Grot, P. Mazur, Non-equilibrium Thermodynamics, Dover Publications, Inc., New York, 1984.
- 6. N.G. Van Kampen, Stochastic Processes in Physics and Chemistry, Elsevier, 2007.
- 7. M. Doi, Introduction to Polymer Physics, Clarendon, Oxford, 1995.

Course language:

- 1. Slovak,
- 2. English

Notes:		
Course assessment Total number of assessed students: 16		
N	P	
0.0 100.0		
Provides: prof. RNDr. Andrej Bobák, DrSc.		
Date of last modification: 03.05.2015		
Approved:		

University: P. J. Šafá	rik University in Koš	ice		
Faculty: Faculty of S	·			
Course ID: ÚFV/ ZSP/04				
Course type, scope a	and the method:			
Course type: Recommended cou	rea land (hours):			
Per week: Per stud	` ,			
Course method: pro	v 1			
Number of ECTS cr	redits: 2			
Recommended seme	ester/trimester of the	e course:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 259			
abs n				
100.0 0.0				
Provides:		<u>.</u>		
Date of last modifica	ntion:			
Approved:				

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚFV/ VPSV/04	· · · · · · · · · · · · · · · · · ·			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr				
	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	course:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 16			
	abs n			
	100.0 0.0			
Provides:				
Date of last modifica	ntion:			
Approved:	,			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚFV/ VBP/04	1		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the cours	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 40		
	abs	n	
	100.0 0.0		
Provides:			
Date of last modification:			
Approved:			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚFV/ PPC/04	Course name: Teaching	activities		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr	edits: 1			
Recommended seme	ster/trimester of the cou	rse:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 252			
	abs n			
100.0 0.0				
Provides:		•		
Date of last modifica	tion:			
Approved:				

University: P. J. Šaf	árik University in Košice				
Faculty: Faculty of	Science				
Course ID: ÚFV/ PPC/04	Course name: Teaching	g activities			
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent				
Number of ECTS c					
	Recommended semester/trimester of the course:				
Course level: III.					
Prerequisities:	=				
Conditions for cour	se completion:				
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:	_				
Course assessment Total number of asse	essed students: 252				
	abs	n			
	100.0	0.0			
Provides:					
Date of last modific	ation:				
Annroved:					

COURSE INFORMATION LETTER			
University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ SAVTFE/13	Course name: Theory and	Phenomenology Elementary Particles	
Course type, scope a Course type: Lectur Recommended cour Per week: 4 Per stu Course method: pre	re rse-load (hours): dy period: 56		
Number of ECTS cr			
	ster/trimester of the course	e: 2.	
Course level: III.			
Prerequisities:			
Conditions for cours Examination	e completion:		
Learning outcomes: To acquaint students	with a modern theory and pl	henomenology of the elementary particles.	
Neutrinos an Neutri Masses. 2. Quark Dynamics: Scattering and Nucle 3. Weak Interactions Structure of the Weak 4. Elementary Partic	ology: Leptons, Quarks and Ino Masses. Quark Model The Strong Interaction. Quark-parton Instructure. Quark-parton Instructure. Quark-parton Instructure. Quark-parton Instructure. Quark-parton Instructure. Quark-parton Instructure. Quark-parton. Neutrinos, Neutrinos, Neutrinos, Neutrinos, Quantum El	Hadrons. Lepton Multiplets and Lepton Numbers. Spektroskopy. Hadron Magnetic Moments and Quark-Gluon Plasma. Jets and Gluons. Inelastic Model. ion. Symmetries of the Weak Interaction. Spin utrino Scattering. Particles with Mass: Chirality. ektrodynamics and Quantum Chromodynamics. s. Top Quark. Testing of Standard Model.	
2. B.R. Martin, Nucle 3. R.N. Cahn, G. Gol 4. W.N. Cottingham, Physics, Cambridge,	duction to Elementary Particle ar and Particle Physics, Joh dhaber, The Experimental F D.A. Greenwood, An Introd 2007.	les, Wiley-VCH, Weinheim, 2008. In Wiley and Sons Ltd, Great Britain, 2009. Indations of Particle Physics, Cambridge, 2009. Iduction to the Standard Model of Particle Interactions, Springer, Berlin, 2009.	
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 1		
	N	P	

100.0

0.0

Provides: RNDr. Ivan Králik, CSc.	
Date of last modification: 03.05.2015	
Approved:	

University: P. J. Šaf	arik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ QFT/18	Course name: Vybrané ka	pitoly z kvantovej teórie poľa	
Course type, scope Course type: Lectu Recommended cou Per week: 2 Per st Course method: p	ure urse-load (hours): udy period: 28 resent		
		a. 1 2	
Course level: III.	ester/trimester of the cours	e: 1., 3.	
Prerequisities:	- · · · · · · · · · · · · · · · · · · ·		
Conditions for cour			
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	cature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 2		
	abs	n	
	100.0	0.0	
Provides: RNDr. To	máš Lučivjanský, PhD., prof	RNDr. Michal Hnatič, DrSc.	
Date of last modific	eation:		
Approved:			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚFV/ POVK/04	Course name: Work in Or	ganizing Committee of Conference
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 95	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion:	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚFV/ PDS/18	Course name: Writing D	issertation Work	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS cr			
	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 22		
	N	P	
	0.0	100.0	
Provides:			
Date of last modifica	tion:		
Approved:			