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
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. Co-worker of project supported by national grant schemes	
9. Computational Physics	
10. Defence of Doctoral Thesis	12
11. Dissertation examination.	
12. Elaboration of reviewer report	14
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 count	
residence.	
21. Journals registered in the Current Contents Connect database and published in the country of	of
residence	
22. Mathematical Methods in Theoretical Physics	
23. National Conference.	
24. Non-reviewed collections of papers and monographs published abroad or in the country of	
residence	28
25. Physical Kinetics	
26. Presentation in Seminar	
27. Quantum Field Theory	32
28. Quantum Theory of Many-Body Systems	
29. Quantum-Statistical Methods for Strongly-Correlated Systems	
30. Reviewed Proceedings	
31. Selected Topics from Theoretical Physics	
32. Selected Topics of Condensed Matter Theory	
33. Self-motivated Study on Scientific Literature.	
34. Spring School for PhD Students	
35. Statistical Physics	
36. Study Stay Abroad	
37. Supervision of Student's Scientific Activity	
38. Supervisor/consultant of bacelor thesis	
39. Teaching activities	
40. Teaching activities	
41. Theory and Phenomenology Elementary Particles	
42. Work in Organizing Committee of Conference	
43. Writing Dissertation Work	

University: P. J. Šaf	árik University in Košice		
Faculty: Faculty of	Science		-
Course ID: ÚFV/ IG/04			
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cours	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: 112		
abs n			
100.0 0.0			
Provides:		•	
Date of last modific	cation:		
Approved: prof. RN	IDr. Michal Jaščur, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ PVS/04			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent		
Number of ECTS cr			
Recommended seme	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:			
Brief outline of the	course:		
Recommended liter	ature:		
Course language:	Course language:		
Notes:			
Course assessment Total number of asse	essed students: 36		
abs n			
100.0 0.0			
Provides:	Provides:		
Date of last modific:	ation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šaf	árik University in Koši	ce
Faculty: Faculty of Science		
Course ID: ÚFV/ CM/04		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent	
Number of ECTS c		
	ester/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 ass	essed students: 1	
abs n		
100.0 0.0		
Provides:		· · · · · · · · · · · · · · · · · · ·
Date of last modific	ation:	
Approved: prof. RN	Dr. Michal Jaščur, CS	2.

University: P. J. Šafa	árik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ CZC/04			
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cour	Conditions for course completion:		
Learning outcomes	Learning outcomes:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:	Course language:		
Notes:			
Course assessment Total number of asse	essed students: 42		
	abs n		
100.0 0.0			
Provides:	Provides:		
Date of last modific	ation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šat	ärik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚFV/ CDC/04	ÚFV/ Course name: Citation in scientific journal published in the country of residence	
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (hours): dy period: resent	
Number of ECTS of	redits: 5	
Recommended sem	ester/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cou	rse completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended lite	rature:	
Course language:		
Notes:		
Course assessment Total number of ass	essed students: 0	
abs n		
0.0 0.0		
Provides:		
Date of last modifie	cation:	
Approved: prof. RN	Dr. Michal Jaščur, CSc.	

University: P. J. Šafá	nrik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ SCI/04			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent		
Number of ECTS ci			
	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 134		
abs n			
100.0 0.0			
Provides:	Provides:		
Date of last modific	ation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šat	árik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ SMPR/04			
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (hours): Idy period: resent		
Number of ECTS of	redits: 15		
Recommended sem	ester/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cou	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended lite	rature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 87		
	abs n		
100.0 0.0			
Provides:			
Date of last modifie	cation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šafa	árik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚFV/ SDPR/04			
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 sem	ester/trimester of the cours	se:	
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: 410		
	abs n		
100.0 0.0			
Provides:		·	
Date of last modific	ation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šafá				
Faculty: Faculty of S	cience			
Course ID: ÚFV/ Course name: Computational Physics POCF/13				
Course type, scope a Course type: Lectur Recommended cour Per week: 4 Per stu Course method: pre	re rse-load (hours): Idy period: 56			
Number of ECTS cr	edits: 8			
Recommended seme	ester/trimester of the course: 2.			
Course level: III.				
Prerequisities:				
Conditions for cours Examination	se completion:			
Learning outcomes: To acquaint students different physical sys	s with modern methods of computational physics and their application to stems.			
surfaces. Multicanon density of states and 2. Molecular Dynam Cellular automata of Suzuki-Trotter relation Renormalization Gro 3. Other models and neural networks and Stochastic signal pro- spin models. Galam re The opinion dynamic	 do methods targeted for problematic complex systems with multimodal energy ical methods. Parallel tempering (replica exchange) method. Calculation of free energy by using Wang-Landau method. hics. Hybrid Monte Carlo method and spin dynamics. Langevin equations of lattice gas. Quantum Monte Carlo simulations of lattice systems based or on. Ising model in transversal field. Anisotropic Heisenberg chain. Monte Carlo up (MCRG) methods. Mao and Swendsen method. Problems of dynamics. applications. Fitting data with linear models. Pattern recognition. Recurrent time series prediction. Hebbian learning. Principal component analysis cessing. Simulations of neural networks. Socio-physical models motivated by nodels. Voter model in hierarchical systems. Model of group decision making es. Sznajd model and its applications. 			
York, 2000.	ature: . Euliano, Neural and adaptive systems, John Wiley & Sons. INC., New Teermann, Monte Carlo simulation in statistical physics, Springer-Verlag,			
 N.G van Kampen, B.K. Chakrabarti, 	ular dynamics simulations, John Wiley & Sons. INC., New York, 1992. Stochastic processes in physics and chemistry, North-Holland, 1990. A. Chakraborti, A. Chatterjee (Editors), Econophysics and sociophysics: ves, Wiley-VCH, 2006.			

Notes:		
Course assessment Total number of assessed students: 7		
N	Р	
0.0 100.0		
Provides: doc. RNDr. Milan Žukovič, PhD.		
Date of last modification: 25.09.2017		
Approved: prof. RNDr. Michal Jaščur, CSc.		

University: P. J. Šaf	árik University in Košic	e
Faculty: Faculty of	Science	
Course ID: ÚFV/ ODZP/14		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent	
Number of ECTS c		
Recommended sem	ester/trimester of the c	ourse:
Course level: III.		
Prerequisities:		
Conditions for cour	rse completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of ass	essed students: 58	
N P		
0.0 100.0		
Provides:		
Date of last modifie	eation: 03.05.2015	
Approved: prof. RN	Dr. Michal Jaščur, CSc.	

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚFV/ DZS/14	Course name: Dissertation examination			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	edits: 20			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Obtaining required n	e completion: umber of credits as given by	the study plan.		
Learning outcomes: Evaluation of compe	tences of the student accord	ing to his/her scientific profile.		
Brief outline of the course: Presentation of the results in the thesis for disertation exam, responding to referee's comments, answering questions of exam committee. Two questions are selected subsequently from one compulsory and one optional subject, respectively. The subjects are selected by guarantee of the program according to the study plan and scientific profile of the student. The third question addresses the current state of work on dissertation thesis.				
Recommended literature:				
Course language: english				
Notes:				
Course assessment Total number of asse	Course assessment Total number of assessed students: 95			
	N P			
0.0 100.0				
	0.0	100.0		
Provides:	0.0	100.0		
Provides: Date of last modifica		100.0		

University: P. J. Šaf	árik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ VPBP/04	Course name: Elaboration of reviewer report		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent		
Number of ECTS c			
Recommended sem	ester/trimester of the cour	se:	_
Course level: III.			
Prerequisities:			
Conditions for cour	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 19		
	abs n		
100.0 0.0			
Provides:		-	
Date of last modific	ation:		_
Approved: prof. RN	Dr. Michal Jaščur, CSc.		_

University: P. J. Ša	fárik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: CJP/ AJD1/07	P/ Course name: English Language for PhD Students 1				
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	etice ourse-load (ho tudy period:	ours):			
Number of ECTS	credits: 2				
Recommended sen	nester/trimes	ter of the cours	e: 1.		
Course level: III.					
Prerequisities:					
Conditions for cou	rse completio)n:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessment Total number of as		s: 584			
N	Ne	Р	Pr	abs	neabs
0.0	0.0 0.0 56.85 0.0 43.15 0.0				
Provides: PhDr. He	elena Petruňov	rá, CSc., Mgr. Zi	ızana Kolaříkov	rá, PhD.	1
Date of last modifi	cation: 03.10	.2019			
Approved: prof. Rl	NDr. Michal J	aščur, CSc.			

University: P. J. Ša	afárik Universi	ty in Košice			
Faculty: Faculty of	f Science				
Course ID: CJP/ AJD2/07	Course name: English Language for PhD Students 2				
Course type, scope Course type: Prace Recommended co Per week: 2 Per s Course method: p	ctice ourse-load (ho study period: present	ours):			
Number of ECTS					
Recommended ser	nester/trimes	ter of the cours	e: 2.		
Course level: III.					
Prerequisities:					
Conditions for cou	irse completio)n:			
Learning outcome	es:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessmen Total number of as	-	s: 569			
N					
0.0	0.0 0.0 92.44 1.41 6.15 0.0				
Provides: PhDr. He	elena Petruňov	vá, CSc., Mgr. Zi	uzana Kolaříkov	á, PhD., Mgr. Ba	rbara Mitríková
Date of last modifi	ication: 26.02	.2020			
Approved: prof. R	NDr. Michal J	aščur, CSc.			

	COURSE INFORMATION LETTER			
University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚFV/ ERS/13	5			
Course type, scope a Course type: Lectur Recommended cour Per week: 4 Per stu Course method: pre	re rse-load (hours): Idy period: 56			
Number of ECTS cr	edits: 8			
Recommended seme	ester/trimester of the course: 4.			
Course level: III.				
Prerequisities:				
Conditions for cours Examination	se completion:			
	with selected exactly solved models in statistical physics and to gain a deeper viscal phenomena explained by these exactly solved models.			
magnetic field. Jorda and anomalous behav 2. Exact solution for quantization formalis free and bound states 3. Two-dimensional iteration transformati and universality in cr method. Two-dimension mixtures, Frenkel-Lo	one-dimensional quantum Ising chain and quantum XY chain in a transverse in-Wigner, Fourier and Bogoliubov transformations. Quantum critical points viour of quantities in their close vicinity. one-dimensional quantum Heisenberg chain within the framework of second- sm, the introduction to Bethe ansatz method. Elementary excitation spectrum, of the Heisenberg model with two spin deviations. Ising model: dual transformation, star-triangle transformation, decoration- tion and theory of generalized algebraic transformations. Critical temperatures itical behaviour. The formulation of exact solution through the transfer-matrix sional Ising model as model of binary alloys, and lattice model of liquid buis and Lin-Taylor model. aforedescribed topics is made by the supervisor according to scientific			
 J.B. Parkinson, D Physics 816, Springe D.C. Mattis, The M F.Y. Wu, Exactly S 	ly Solved Models in Statistical Mechanics, Academic, New York, 1989. J.J. Farnell, An Introduction to Quantum Spin Systems, Lecture Notes in			

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 Statistical Physics, supportive textbook, ESF 2005/ NP1-051 11230100466, Košice, 2008.

Course]	language:
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EN - english

Notes:

Notes:		
Course assessment		
Total number of assessed students: 9		
Ν	Р	
0.0 100.0		
Provides: doc. RNDr. Jozef Strečka, PhD.		
Date of last modification: 03.05.2015		
Approved: prof. RNDr. Michal Jaščur, CSc.		

University: P. J. Šafa	árik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ DKZU/04	Course name: Home Conference with Foreign Participation		
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cour	Conditions for course completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 271		
abs n			
100.0 0.0			
Provides:			
Date of last modific	ation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šaf	ärik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ MK/04	JFV/ Course name: International Conference		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 375		
abs n			
100.0 0.0			
Provides:			
Date of last modific	ration:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šafa	árik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚFV/ ZKC/04	Course name: Journals Registered by Current Contets Database			
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	urse-load (hours): dy period: resent			
Number of ECTS c				
Recommended sem	ester/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cour	se completion:			
Learning outcomes	Learning outcomes:			
Brief outline of the	course:			
Recommended liter	ature:			
Course language:				
Notes:	Notes:			
Course assessment Total number of asse	essed students: 382			
	abs n			
100.0 0.0				
Provides:				
Date of last modific	ation:			
Approved: prof. RN	Dr. Michal Jaščur, CSc.			

University: P. J. Šat	ärik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ ZNC/04	Course name: Journals not registered in the Current Contents Connect database and published abroad		
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (hours): Idy period: resent		
Number of ECTS c			
Recommended sem	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: 45		
	abs n		
100.0 0.0			
Provides:		•	
Date of last modifie	cation:		
Approved: prof. RN	IDr. Michal Jaščur, CSc.		

University: P. J. Šat	árik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ DNC/04	Course name: Journals not registered in the Current Contents Connect database and published in the country of residence		
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (hours): dy period: resent		
Number of ECTS of			
	ester/trimester of the cours	se:	
Course level: III.			
Prerequisities:			
Conditions for cou	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended lite	rature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 18		
	abs n		
	100.0 0.0		
Provides:		·	
Date of last modifie	cation:		
Approved: prof. RN	JDr. Michal Jaščur, CSc.		

University: P. J. Šat	čárik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚFV/ DKC/04	Course name: Journals read and published in the count	gistered in the Current Contents Connect database ry of residence
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (hours): Idy period: resent	
Number of ECTS of		
	ester/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cour	rse completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended lite	rature:	
Course language:		
Notes:		
Course assessment Total number of ass	essed students: 8	
	abs	n
	100.0	0.0
Provides:		· · · · · · · · · · · · · · · · · · ·
Date of last modifie	cation:	
Approved: prof. RN	JDr. Michal Jaščur, CSc.	

University: P. J. Šafárik University in Košice
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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: 2	
N	Р
0.0	100.0
Provides: doc. RNDr. Milan Žukovič, PhD., RNDr.	Tomáš Lučivjanský, PhD.
Date of last modification: 03.05.2015	
Approved: prof. RNDr. Michal Jaščur, CSc.	

University: P. J. Šaf	ărik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ DK/04	Course name: National (Conference	
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cour	rse:	
Course level: III.			
Prerequisities:			
Conditions for cour	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 129		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modific	ation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šat	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚFV/ NZ/04	Course name: Non-review published abroad or in the	ved collections of papers and monographs country of residence
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (hours): dy period: resent	
Number of ECTS of		
	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cou	rse completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended lite	rature:	
Course language:		
Notes:		
Course assessment Total number of ass	essed students: 98	
	abs	n
	100.0	0.0
Provides:		·
Date of last modifie	cation:	
Approved: prof. RN	Dr. Michal Jaščur, CSc.	

University: P. J. Šafa	árik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚFV/ SAVFK/13	Course name: Physical Kinetics
Course type, scope = Course type: Lectu Recommended cou Per week: 4 Per stu Course method: pu	re irse-load (hours): udy period: 56
Number of ECTS c	redits: 8
Recommended sem	ester/trimester of the course: 2.
Course level: III.	
Prerequisities:	
Conditions for cour Examination	se completion:
	with mathematical methods, which enable to solve the problem of particle nogeneous medium (interplanetary space).
heliosphere. Liouvil	course: sma physics. Energetic particles in a proximity universe and the structure of le equation as a basis for description of the kinetics of neutral and charged a equation and its application by solving the problem of a particle transport

heliosphere. Liouville equation as a basis for description of the kinetics of neutral and charged particles. Boltzmann equation and its application by solving the problem of a particle transport with low collision frequencies. Application of Vlasov equation for solving the problem of particle transport in a plasma. Introduction to hydrodynamics and magnetohydrodynamics. Small-angle scattering approximation, Fokker-Planck equation. The passive advection of high-energy charged particles in a turbulent magnetic field. The diffusion approximation and basic solutions of diffusion equations for a description of the transport of charged particles in a plasma.

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

Recommended literature:

1. R.L. Liboff, Kinetic Theory, 3rd edition, Springer-Verlag, New York, 2003.

2. M. Plischke, B. Bergersen, Equilibrium Statistical Physics, 3rd edition, World Scientific, Singapore, 2006.

3. F.F. Chen, J.P. Chang, Lecture Notes on Principles of Plasma Processing, Springer-Verlag, Berlin, 2003.

4. E.M. Lifshitz, L.P. Pitaevskii, Course of Theoretical Physics: Physical Kinetics, Vol. 10, Pergamon Press, London, 1981 [translation from russian original: Nauka, Moskva, 1979].

 P.M. Bellan, Fundamentals of Plasma Physics, Cambridge University Press, Cambridge, 2008.
 K. Itoh, S.-I. Itoh, A. Fukuyama, Transport and Structural Formation in Plasmas, Institute of Physics Publishing, Bristol, 1999.

7. F.F. Chen, Úvod do fyziky plazmatu, Academia, Praha, 1984. (in Czech)

8. V.P. Silin, Úvod do kinetické teórie plynu, Academia, Praha, 1976. (in Czech)

Course language:	
Notes:	
Course assessment	
Total number of assessed students: 1	
Ν	Р
0.0	100.0
Provides: RNDr. Milan Stehlík, CSc.	
Date of last modification: 03.05.2015	
Approved: prof. RNDr. Michal Jaščur, CSc.	

University: P. J. Šaf	ärik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ VYS/04	Course name: Presentat	ion in Seminar	
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cour	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 315		
	abs	n	
	100.0	0.0	
Provides:		- ·	
Date of last modific	cation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

Faculty: Faculty of S	Science
Course ID: ÚFV/ KTP/13	Course name: Quantum Field Theory
Course type, scope Course type: Lectu Recommended cou Per week: 4 Per stu Course method: pu	are arse-load (hours): udy period: 56
Number of ECTS c	redits: 8
Recommended sem	ester/trimester of the course: 2.
Course level: III.	
Prerequisities:	
Conditions for cour Examination	'se completion:
Learning outcomes To acquaint with que particles and statistic	uantum field theory methods and their application in theory of elementary
 Application of qua theories of elementa Application of qua Critical dynamics technique and renormalization 	antum field theory in statistical physics. Feynman diagrams. s and description of scaling at phase transitions by means of quantum-field
 2.A. Zee, Quantum I 3. P. Ramond, Field 4. Zinn-Justin J., Qu 5. W. Greiner, J. Rei 6. W. Greiner, J. Rei 7. W. Greiner, S. Sch 	rature: Itum Field Theory, Cambridge University Press, Cambridge, 1996. Field Theory in Nutshell, Princeton University Press, Princeton, 2010. Theory: A Modern Primer, Westview Press, 1990. Itantum Field Theory and Critical Phenomena, Claredon Press, Oxford, 2004. Inhardt, Field Quantization, Springer, Berlin, 1996.
,	inhardt, Pield Quantization, Springer, Berlin, 1990. inhardt, Quantum Electrodynamics, Springer, Berlin, 2009. hramm, E. Stein, Quantum Chromodynamics, Springer, Berlin, 2007. e Field Theoretic Renormalization Group in Critical Behavior Theory amics, Chapman & Hall/CRC Press Company Boca Raton, London, 2004.
,	inhardt, Quantum Electrodynamics, Springer, Berlin, 2009. hramm, E. Stein, Quantum Chromodynamics, Springer, Berlin, 2007. e Field Theoretic Renormalization Group in Critical Behavior Theory

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

University: P. J. Šaf	ărik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚFV/ KTMS/04	Course name: Quantum Theory of Many-Body Systems	
Course type, scope Course type: Lectr Recommended cor Per week: 4 Per st Course method: p	ure urse-load (hours): rudy period: 56	
Number of ECTS c	redits: 8	
Recommended sem	ester/trimester of the course: 3.	
Course level: III.		
Prerequisities:		
Conditions for cou Examination	rse completion:	
Learning outcomes	:	
Brief outline of the	course: of magnetism. Ferromagnetic, ferrimagnetic and antiferromagnetic quan	tum

1. Quantum theory of magnetism. Ferromagnetic, ferrimagnetic and antiferromagnetic quantum many-body systems. Theoretical model of quantum magnetism - Heisenberg, XY and Hubbard model. Second quantization, Jordan-Wigner, Bogolubov and Dyson-Maleeev transformation, density matrix renormalization group.

2. Green functions. Spectral representation of Green functions. Green functions in the theory of non-linear processes. Applications of the Green functions in solid state physics. Density states, Kubo-Greenwood formula. Theory of superconductivity.

3. Non-linear equations in mathematical physics: Korteweg-de Vries quation, solitons, non-linear Schrodinger equation, sin-Gordon equation. Applications of non-linear equations in physics: Josephson effect, domain wall, theory of dislocation.

Recommended literature:

- 1. A. Auerbach, Interacting Electrons and Quantum Magnetism, Springer, New York, 1994.
- 2. S. Sachdev, Quantum Phase Transitions, Cambridge University Press, Cambridge, 1998.
- 3. S. V. Tjablikov, Methods in the Quantum Theory of Magnetism, Plenum, New York, 1967.
- 4. H. Haken, Quantenfeldtheorie das Festkorpers, B.G. Teubner, Stuttgart, 1973.
- 5. P.M. Morse, H. Feshbach, Methods of Theoretical Physics, McGraw Hill, New York, 1953.
- 6. E.T. Whittaker, G.N. Watson, A Course of Modern Analysis, Cambridge University Press UK, 1997.

Course language:

Notes:

Course assessment	
Total number of assessed students: 8	
Ν	Р
0.0	100.0
Provides: doc. RNDr. Peter Kopčanský, CSc., RNDr. Pavol Farkašovský, DrSc.	
Date of last modification: 03.05.2015	
Approved: prof. RNDr. Michal Jaščur, CSc.	

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚFV/ SAVKSM/13	Course name: Quantum-Statistical Methods for Strongly-Correlated Systems	
Course type, scope a Course type: Lectu Recommended cou Per week: 4 Per sta Course method: pr	re irse-load (hours): udy period: 56	
Number of ECTS c	redits: 8	
Recommended sem	ester/trimester of the course: 2.	
Course level: III.		
Prerequisities:		
Conditions for cour Examination	se completion:	
Learning outcomes To improve student many-particle system	knowledge for employing analytical and numerical methods in the theory of	
properties. Terminol Analytical methods: theory, variational pr Green function meth Feynman's diagrams Numerical methods variational Monte C	oscopic models of strongly correlated many-particle systems and their basic ogy, second quantization, fermions, bosons. method of canonical transformations, Bogoliubov transformation, perturbation inciple. Exact solution for Hubbard and Anderson model, Bethe ansatz method. od, Heisenberg, Schrödinger, iteration reprezentation, S-matrix, Wick theorem, s. exact diagonalization, Lanczos algorithm, modified Lanczos method, arlo technique, density matrix renormalization group. aforedescribed topics is made by the supervisor according to scientific	
 F.H.L. Essler, H. I. Hubbard Model, Car A. Montorsi, The H. Haken, Kvanto S. Doniach, E. H. Inc., Massachusetts, C.P. Enz, A Course M.E.J. Newman, Oxford, 1999. S. R. White, Phys P. Farkašovský, H 	re Notes on Electron Correlation and Magnetism, World Scientific, 1999. Frahm, F. Gohmann, A. Klumper, V.E. Korepin, The One-Dimensional mbridge University Press, Cambridge, 2005. Hubbard Model, World Scientific, Singapore, 1992. ovopoľová teória tuhých látok, Alfa, Bratislava, 1987. Sondheimer, Green's Functions for Solid State Physicists, W. A. Benjamin,	

Course language:		
Notes:		
Course assessment Total number of assessed students: 4		
Ν	Р	
0.0	100.0	
Provides: RNDr. Pavol Farkašovský, DrSc.		
Date of last modification: 03.05.2015		
Approved: prof. RNDr. Michal Jaščur, CSc.		

University: P. J. Šaf	ärik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ RZ/04			
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cour	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 183		
abs n			
100.0 0.0			
Provides:			
Date of last modific	eation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

Faculty of ScienceCourse ID: ÚFV/ VKTF/15Course name: Selected Topics from Theoretical PhyCourse type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 4 Per study period: 56 Course method: present	sics	
VKTF/15 Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 4 Per study period: 56	sics	
Course type: Lecture Recommended course-load (hours): Per week: 4 Per study period: 56		
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 and universally applicable techniques.	put on basic principles	
 Brief outline of the course: 1. Lagrange's and Hamilton's equations. Canonical transformations. Hamilton's equations. Canonical transformations. Hamilton's equations operator, spin and spinors. 3. Ideal Fermi and Bose gases. Degenerate electron gas. Magnetism of an electron gas. Degenerate electron gas. 	. Angular momentum	
 Recommended literature: 1. W.Greiner, Classical Mechanics, Systems of Particles and Hamiltonian I Berlin, 2010. 2. W. Greiner, Relativistic Quantum Mechanics, Springer, Berlin, 2000. 3. R.K. Pathria, P. D. Beale, Satistical Mechanics, Elsevier, Amsterdam, 2000. 		
Course language: 1. Slovak, 2. English		
Notes:		
Course assessment Total number of assessed students: 8		
N P		
0.0 100.0		
Provides: prof. RNDr. Michal Jaščur, CSc., prof. RNDr. Andrej Bobák, Dr. Strečka, PhD.	Sc., doc. RNDr. Jozef	
Date of last modification: 03.05.2015		

Approved: prof. RNDr. Michal Jaščur, CSc.

University: P. J. Šafá	nrik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ VKTKL/15	I I I I I I I I I I I I I I I I I I I		
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pr	re rse-load (hours): Idy period: 28 esent		
Number of ECTS ci			
Recommended seme	ester/trimester of the cours	e: 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: 3		
N P			
0.0 100.0			
Provides: prof. RND	r. Michal Jaščur, CSc.		
Date of last modific	ation: 03.05.2015		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚFV/ Course name: Self-motivated Study on Scientific Literature		
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	urse-load (hours): dy period: resent	
Number of ECTS c		
	ester/trimester of the cours	e:
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: 170	
N P		
	0.0	100.0
Provides:		
Date of last modific	ation:	
Approved: prof. RN	Dr. Michal Jaščur, CSc.	

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
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	e rse-load (hours): y period: 4d	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	2:
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 asses	ssed students: 135	
abs n		
100.0 0.0		
Provides: prof. RNDr. Vladimír Zeleňák, DrSc.		
Date of last modification: 03.05.2015		
Approved: prof. RNI	Dr. Michal Jaščur, CSc.	

Faculty: Faculty of S	cience
Course ID: ÚFV/ STATF/13	Course name: Statistical Physics
Course type, scope a Course type: Lectur Recommended cour Per week: 4 Per stu Course method: pre	e rse-load (hours): dy period: 56
Number of ECTS cro	edits: 8
Recommended seme	ster/trimester of the course: 2.
Course level: III.	
Prerequisities:	
Conditions for cours Examination	e completion:
-	with a modern theory of phase transitions, nonequilibrium thermodynamics l physics of macromolecules.
Kadanoff block spins perturbative renormal 2. Nonequilibrium sta nonequilibrium therm dissipation theorem. I Fokker-Planck equati 3. Statistical physics mixtures. Polymer ge	nd critical phenomena. Critical indices. Universality. Static scaling hypothesis . Theory of the renormalization group. Phase diagrams and fixed points. The lization group. Random systems. atistical thermodynamics. Equilibrium and nonequilibrium processes. Linear nodynamics. Phenomenological equations and Onsager relations. Fluctuation Kinetic theory. Master equation, Boltzmann equation, Langevin equation and
 S.K. Ma, Statistica L.P. Kadanoff, Stat Singapore, 2000. J. Cardy, Scaling a S.R. de Grot, P. Ma York, 1984. N.G. Van Kampen, 	 ature: rgersen, Equilibrium Statistical Physics, World Scientific, Singapore, 2006. l Mechanics, World Scientific, Singapore, 1993. atistical Physics: Statics, Dynamics and Renormalization, World Scientific, and Renormalization in Statistical Physics, Cambridge, 2002. azur, Non-equilibrium Thermodynamics, Dover Publications, Inc., New atistical Physics in Physics and Chemistry, Elsevier, 2007. by to Polymer Physics, Clarendon, Oxford, 1995.
Course language: 1. Slovak, 2. English	<u> </u>

Notes:		
Course assessment Total number of assessed students: 12		
N	Р	
0.0	100.0	
Provides: prof. RNDr. Andrej Bobák, DrSc.		
Date of last modification: 03.05.2015		
Approved: prof. RNDr. Michal Jaščur, CSc.		

University: P. J. Šaf	ărik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ ZSP/04			
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cou	irse:	
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 ass	essed students: 241		
abs n			
100.0 0.0			
Provides:			
Date of last modific	ation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šafa	árik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚFV/ VPSV/04			
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	urse-load (hours): dy period: resent		
Number of ECTS c			
Recommended sem	ester/trimester of the cours	e:	
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: 15		
abs n			
100.0 0.0			
Provides:			
Date of last modific	ation:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šaf	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚFV/ /BP/04Course name: Supervisor/consultant of bacelor thesis		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent	
Number of ECTS c		
	ester/trimester of the cou	rse:
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: 37	
abs n		
100.0 0.0		
Provides:		
Date of last modific	ation:	
Approved: prof. RN	Dr. Michal Jaščur, CSc.	

University: P. J. Šaf	ärik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚFV/ PPC/04			
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent		
Number of ECTS c			
Recommended sem	ester/trimester of the cou	irse:	
Course level: III.			
Prerequisities:			
Conditions for cour	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 221		
abs n			
100.0 0.0			
Provides:			
Date of last modific	ration:		
Approved: prof. RN	Dr. Michal Jaščur, CSc.		

University: P. J. Šaf	árik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚFV/ PPC/04	Course name: Teaching activities				
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent				
Number of ECTS credits: 1					
	ester/trimester of the cou	rse:			
Course level: III.					
Prerequisities:					
Conditions for cour	se completion:				
Learning outcomes	:				
Brief outline of the	course:				
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of ass	essed students: 221				
	abs	n			
	100.0	0.0			
Provides:		-			
Date of last modific	ation:				
Approved: prof. RNDr. Michal Jaščur, CSc.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
-	Faculty: Faculty of Science					
Course ID: ÚFV/ SAVTFE/13	Course name: Theory and	Phenomenology Elementary Particles				
Course type, scope a Course type: Lectur Recommended cou Per week: 4 Per stu Course method: pro	re rse-load (hours): 1 dy period: 56					
Number of ECTS cr	edits: 8					
Recommended seme	ster/trimester of the cours	e: 2.				
Course level: III.						
Prerequisities:						
Conditions for cours Examination	se completion:					
Learning outcomes: To acquaint students	Learning outcomes: To acquaint students with a modern theory and phenomenology of the elementary particles.					
Neutrinos an Neutri Masses. 2. Quark Dynamics: Scattering and Nucle 3. Weak Interactions Structure of the Weat 4. Elementary Partic	ology: Leptons, Quarks and no Masses. Quark Model The Strong Interaction. Q on Structure. Quark-parton I s and Electroweak Unificat k Interaction. Neutrinos, Neu eles Dynamics. 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 atrino Scattering. Particles with Mass: Chirality. ektrodynamics and Quantum Chromodynamics. s. Top Quark. Testing of Standard Model.				
 Recommended literature: 1. D. Griffiths, Introduction to Elementary Particles, Wiley-VCH, Weinheim, 2008. 2. B.R. Martin, Nuclear and Particle Physics, John Wiley and Sons Ltd, Great Britain, 2009. 3. R.N. Cahn, G. Goldhaber, The Experimental Fundations of Particle Physics, Cambridge, 2009. 4. W.N. Cottingham, D.A. Greenwood, An Introduction to the Standard Model of Particle Physics, Cambridge, 2007. 5. W. Greiner, B. Müller, Gauge Theory of Weak Interactions, Springer, Berlin, 2009. 						
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 1					
	N P					
	0.0	100.0				

Provides: RNDr. Ivan Králik, CSc.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Michal Jaščur, CSc.

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science						
Course ID: ÚFV/ POVK/04	Course name: Work in Organizing Committee of Conference					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
Number of ECTS ci						
Recommended semester/trimester of the course:						
Course level: III.						
Prerequisities:						
Conditions for cour	se completion:					
Learning outcomes:						
Brief outline of the	course:					
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 83						
	abs	n				
	100.0	0.0				
Provides:						
Date of last modification:						
Approved: prof. RNDr. Michal Jaščur, CSc.						

University: P. J. Šaf	árik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚFV/ PDS/14	Course name: Writing Dissertation Work				
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period:				
Number of ECTS credits: 0					
Recommended semester/trimester of the course:					
Course level: III.					
Prerequisities:					
Conditions for cour	rse completion:				
Learning outcomes	:				
Brief outline of the	course:				
Recommended literature:					
Course language:					
Notes:	Notes:				
Course assessment Total number of ass	essed students: 68				
	abs	n			
	100.0	0.0			
Provides:		-			
Date of last modific	eation:				
Approved: prof. RNDr. Michal Jaščur, CSc.					