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Fooultry Er	s I. J. Salall	k University i	n Kosice				
raculty: Fa	aculty of Sci	ence					
Course ID: ACM/12	ÚBEV/	Course name:	Analytical	Cytometry			
Course ty Recomme Per week:	pe: Lecture nded cours	e-load (hours tudy period:	s):				
Number of	ECTS crea	lits: 4					
Recommen	ided semest	er/trimester	of the cours	e:			
Course lev	el: II., III.						
Prerequisit	ties:						
Conditions	for course	completion:					
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Provides: RNDr. Rastislav Jendželovský, PhD.

Date of last modification: 29.01.2020

Approved: prof. RNDr. Peter Fedoročko, CSc.

	J. Salalli	k University i	n Košice					
Faculty: Facult	lty of Sci	ence						
Course ID: Ú AMK/15	: ÚBEV/ Course name: Aplikovaná mikrobiológia							
	: Lecture led cours / 2 Per st	/ Practice e-load (hours tudy period: 2	s):					
Number of E	CTS cred	lits: 5						
Recommende	ed semest	er/trimester	of the cours	e:				
Course level:	III.							
Prerequisities	5:							
Conditions for Attendance of		-	%), final exa	nination				
Študenti získa biochemikálií	a o využ	tití rekombina	ntných DNA	techník v p	oriemysle. Ďa	ılej získajú i	nformácie o	
biochemikálií kyselinu mlied mikroorganizt biopalivá. Brief outline o Application o recombinant I	a o využ čnu prod mov pri of the cou of bacte: DNA tech	tití rekombina ukujúcich bak ochrane život urse: ria in indust miques in indust	ntných DNA ttériách a ich ného prostre trial process ustry. Lactic	techník v p využití v p dia – čister ses, biocher acid bacteria	oriemysle. Ďa otravinársko nie odpadovy micals prod a and its appl	lej získajú i m priemysle ých vôd, bio uction. App lication in fo	nformácie o a o využití premediácia, plication of od industry.	
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University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ PVS/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 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 assessed students: 1							
	abs n						
	100.0 0.0						
Provides:							
Date of last modifica	ntion:						
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.						

University: P. J. Šafárik University in Košice							
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚBEV/ CM/04	Course name: Citation in monograph						
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 course:						
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: 0							
Provides:							
Date of last modifica	tion:						
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.						

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ CZC/04	Jen a second sec						
Course type: Recommended cou Per week: Per stud Course method: pre	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
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 assessed students: 41							
	abs n						
	100.0 0.0						
Provides:							
Date of last modifica	ition:						
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.						

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ CDC/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	edits: 5						
Recommended seme	ester/trimester of the cours	e:					
Course level: III.							
Prerequisities:							
Conditions for cour	se completion:						
Learning outcomes:							
Brief outline of the o	course:						
Recommended liter	ature:						
Course language:							
Notes:							
Course assessment Total number of assessed students: 5							
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Provides:		•					
Date of last modific:	ation:						
Approved: prof. RN	Dr. Peter Fedoročko, CSc.						

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ SCI/04							
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	r se-load (hours): y period: esent						
Number of ECTS cr							
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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: 63							
	abs n						
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Provides:							
Date of last modifica	tion:						
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.						

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ SMPR/04							
Course type: Recommended cou Per week: Per stue Course method: pr	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
Number of ECTS ci							
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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 assessed students: 39							
	abs n						
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Provides:							
Date of last modific:	ation:						
Approved: prof. RN	Dr. Peter Fedoročko, CSc.						

University: P. J. Šafárik University in Košice								
Faculty: Faculty of Science								
Course ID: ÚBEV/ SDPR/04								
Course type: Recommended cou Per week: Per stud	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: 2							
Recommended seme	ster/trimester of the cours	e:						
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 assessed students: 397								
	abs n							
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Provides:								
Date of last modifica	ation:							
Approved: prof. RN	Dr. Peter Fedoročko, CSc.							

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ DK/04	······································						
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	r se-load (hours): y period: esent						
Number of ECTS cr							
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	iture:						
Course language:							
Notes:							
Course assessment Total number of assessed students: 138							
	abs n						
	100.0 0.0						
Provides:							
Date of last modifica	tion:						
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.						

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: II., III. Prerequisities: Conditions for course completion: written tests, protocols, oral examination Learning outcomes: To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and moleculoar cytology. To get acquainted in detail with the results comming from human genome mapping. Brief outline of the course: Organisation of cukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of a leomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it? Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources Course language:	University:	P. J. Šafár	ik University i	n Košice				
CK1/03 Image: Construct of the construction of the construct the constructin the construction of the constructin the con	Faculty: Fa	culty of Sc	eience					
Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: II., III. Prerequisities: Conditions for course completion: written tests, protocols, oral examination Learning outcomes: To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and moleculoar cytology. To get acquainted in detail with the results comming from human genome mapping. Brief outline of the course: Organisation of cukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it? Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources Privale is the first in the first is the firs	Course ID: CK1/03	ÚBEV/	Course name:	Cytogenetic	es and Karyo	logy		
Recommended semester/trimester of the course: Course level: II., III. Prerequisities: Conditions for course completion: written tests, protocols, oral examination Learning outcomes: To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and moleculoar cytology. To get acquainted in detail with the results comming from human genome mapping. Brief outline of the course: Organisation of cukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it? Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Verticals Periodicals Internet sources Verticals Course assessment Total number of assessed students: 1289 A B C D E FX N P A B C D E FX N P	Course ty Recomme Per week:	pe: Lecture nded cour 1 / 2 Per s	e / Practice se-load (hours study period:	5):				
Course level: II., III. Prerequisities: Conditions for course completion: written tests, protocols, oral examination Learning outcomes: To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and moleculoar cytology. To get acquainted in detail with the results comming from human genome mapping. Brief outline of the course: Organisation of eukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it? Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources Course assessment Total number of assessed students: 1289 A B C D E FX N P A B <	Number of	ECTS cre	dits: 4					
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Conditions for course completion: written tests, protocols, oral examination	Course leve	el: II., III.						
written tests, protocols, oral examination Learning outcomes: To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and moleculoar cytology. To get acquainted in detail with the results comming from human genome mapping. Brief outline of the course: Organisation of eukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it? Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources Course language: Notes: Course assessment Total number of assessed students: 1289 A B C D E FX N P 24.9 14.58 15.67 14.58 17.61 11.71 0.0 0.93 Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.	Prerequisit	ies:						
To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and moleculoar cytology. To get acquainted in detail with the results comming from human genome mapping. Brief outline of the course: Organisation of eukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it? Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources Course language: Votes A B C D E FX N P 24.9 14.58 15.67 14.58 17.61 11.71 0.0 0.93 Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD. Votes Votes Votes	written test protocols, oral examin	s, nation	. compiction.					
Organisation of eukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it? Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources Course language: Course assessment Total number of assessed students: 1289 A B C D E FX N P 24.9 14.58 15.67 14.58 17.61 11.71 0.0 0.93 Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.	To gain kno findings of	wledge an cytogenet	ics and molec	uloar cytolo			-	
Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sourcesCourse language:Notes:Course assessment Total number of assessed students: 1289ABCDEFXNP24.914.5815.6714.5817.6111.710.00.93Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.	Organisation structure and Polythene of cell different	on of eukar nd changes chromoson ntiation. A	yotic genome. of chromatin. nes. Cell cyclo poptosis. Telor	Levels of D e. Genetic re meres and fu	NA organisa egulation of nction of tel	ation in cell n a cell cycle omerase. Mo	nucleus. Chi . Genetic re	romosomes. egulation of
Notes: Course assessment Total number of assessed students: 1289 A B C D E FX N P 24.9 14.58 15.67 14.58 17.61 11.71 0.0 0.93 Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD. P	Russel, J.P. New York Periodicals	: Genetics, 1992		, Harper Coll	ins Publishe	r,		
Course assessment Total number of assessed students: 1289 A B C D E FX N P 24.9 14.58 15.67 14.58 17.61 11.71 0.0 0.93 Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.	Course lan	guage:						
Total number of assessed students: 1289 A B C D E FX N P 24.9 14.58 15.67 14.58 17.61 11.71 0.0 0.93 Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.	Notes:	_						
24.9 14.58 15.67 14.58 17.61 11.71 0.0 0.93 Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.			sed students: 1	289				
Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.	А	В	C	D	Е	FX	Ν	Р
	24.9	14.58	15.67	14.58	17.61	11.71	0.0	0.93
Date of last modification: 03 05 2015	Provides: p	rof. RNDr.	Eva Čellárova	á, DrSc., RN	Dr. Katarína	Bruňáková, l	PhD.	
Date of last mounication, 03.03.2013	Date of last	modificat	tion: 03.05.201	15				

Approved: prof. RNDr. Peter Fedoročko, CSc.

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚBEV/ ODZP/14						
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 o	course:					
Recommended litera	ature:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 38					
	Ν	Р				
0.0 100.0						
Provides:						
Date of last modifica	Date of last modification: 03.05.2015					
Approved: prof. RN	Dr. Peter Fedoročko, CSc.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚBEV/ 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 cr					
	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities: ÚBE	V/VEK3/11				
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	Course assessment Total number of assessed students: 51				
	Ν	Р			
0.0 100.0					
Provides:					
Date of last modification: 03.05.2015					
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.				

University: P. J. Ša	lfárik Univers	ity in Košice					
Faculty: Faculty of	fScience						
Course ID: CJP/ AJD1/07							
Course type, scope Course type: Prace Recommended co Per week: 2 Per s Course method: 1	etice ourse-load (ho otudy period: present	ours):					
Number of ECTS							
Recommended ser	nester/trimes	ter of the course	e: 1.	=			
Course level: III.							
Prerequisities:							
Conditions for cou	irse completi	on:					
Learning outcome	s:						
Brief outline of the	e course:						
Recommended lite	erature:						
Course language:							
Notes:				-			
Course assessmen Total number of as	-	ts: 584					
N	Ne	Р	Pr	abs	neabs		
0.0	0.0	56.85	0.0	43.15	0.0		
Provides: PhDr. He	elena Petruňov	vá, CSc., Mgr. Zu	ızana Kolaříkov	á, PhD.	1		
Date of last modifi	ication: 03.10	.2019					
Approved: prof. R	NDr. Peter Fe	doročko, CSc.					

University: P. J. Ša	afárik Universi	ity in Košice				
Faculty: Faculty of	f Science					
Course ID: CJP/ AJD2/07	D: CJP/ Course name: English Language for PhD Students 2					
Course type, scope Course type: Prace Recommended co Per week: 2 Per s Course method:]	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	on:				
Learning outcome	es:					
Brief outline of the	e course:					
Recommended lite	erature:					
Course language:						
Notes:						
Course assessmen Total number of as	-	ts: 569				
N	Ne	Р	Pr	abs	neabs	
0.0	0.0	92.44	1.41	6.15	0.0	
Provides: PhDr. He	elena Petruňov	/á, CSc., Mgr. Zi	ızana Kolaříkov	á, PhD., Mgr. Ba	rbara Mitríková	
Date of last modifi	ication: 26.02	.2020				
Approved: prof. R	NDr. Peter Fe	doročko, CSc.				

University:	P. J. Šafári	ik University i	n Košice				
Faculty: Fa	culty of Sc	ience					
Course ID: ÚBEV/ Course name: Environmentálna mikrobiológia EMK/15							
Course ty Recomme Per week:	pe: Lecture nded cours	se-load (hours tudy period: 1	s):				
Number of	ECTS cre	dits: 5					
Recommen	ded semes	ter/trimester	of the cours	se:			
Course leve	el: II., III.						
Prerequisit	ties:						
		e completion: als (at least 909	%), final ora	l examinatio	n		
of most fre organisms. Brief outlin Evolution a abiotic fact	students da quently occ ne of the co and biodive tors on mic	ta on participa curing microbi purse: ersity of micro roorganisms, 1	al communi	ties and inter	sms in enviro	croorganism	is with other
and other o	-						
Recommen		ure:					
Course lan	guage:						
Notes:							
Course ass Total numb		sed students: 4	.9				
А	В	C	D	Е	FX	N	Р
46.94	28.57	2.04	0.0	4.08	0.0	0.0	18.37
Provides: p Pristaš, CSc		Jana Sedlákov	vá, PhD., RI	NDr. Lenka N	Maliničová, P	hD., doc. Rl	NDr. Peter
Date of last	t modificat	ion: 03.05.201	15				

University: P. J. Š	afárik	University in	n Košice				
Faculty: Faculty of	f Scie	ence					
Course ID: ÚBEV GM1/03	7/ C	ourse name:	Gene Manij	oulations			
Course type, scop Course type: Lea Recommended of Per week: 2 / 2 F Course method:	cture / ourse er stu	Practice -load (hours idy period: 2	s):				
Number of ECTS							
Recommended se	meste	r/trimester	of the cours	e:			
Course level: II.,]	II.						
Prerequisities: Úl	BEV/U	JGM1/03					
Conditions for co	urse c	completion:					
Learning outcom	es:						
Brief outline of th	e cou	rse:					
Recommended lit	eratu	re:					
Course language:							
Notes:							
Course assessmer Total number of a		d students: 1	79				
A E		С	D	Е	FX	Ν	Р
48.04 26.	26	10.06	4.47	2.23	0.56	0.0	8.38
Provides: doc. RN	Dr. Po	eter Pristaš, (CSc., RNDr.	Mariana Kol	lesárová, PhI).	
Date of last modi	icatio	on: 03.05.201	.5				
Approved: prof. F	NDr.	Peter Fedoro	očko, CSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚBEV/ Course name: Immunology IMU/04					
Course type, scope a Course type: Practi Recommended cou Per week: Per stud Course method: pro	ce rse-load (hours): ly period: 20s				
Number of ECTS cr	redits: 5				
Recommended seme	ester/trimester of the cours	e:			
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: 35				
	N	Р			
0.0 100.0					
Provides: RNDr. Vla	Provides: RNDr. Vlasta Demečková, PhD.				
Date of last modifica	Date of last modification: 03.05.2015				
Approved: prof. RN	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	cience					
Course ID: ÚBEV/ NEM/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	edits: 15					
Recommended seme	ester/trimester of the cours	e:				
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: 75					
	abs n					
100.0 0.0						
Provides:	Provides:					
Date of last modific:	Date of last modification:					
Approved: prof. RN	Dr. Peter Fedoročko, CSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ MK/04	Course name: Internationa	ll Conference			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
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: 213				
	abs	n			
	100.0 0.0				
Provides:					
Date of last modification:					
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ DKZU/04					
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: 4				
Recommended seme	ester/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the o	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 114				
	abs	n			
	100.0 0.0				
Provides:	Provides:				
Date of last modifica	Date of last modification:				
Approved: prof. RN	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚBEV/ UFCM/10	Course name: Introduction to Flow Cytometry
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 14 / 28
Number of ECTS cr	edits: 4

Recommended semester/trimester of the course:

Course level: II., III.

Prerequisities:

Conditions for course completion:

Learning outcomes:

The goal is to teach the students on II. and III. stage some theoretical and practical aspects of analytical cytometry with special focus on flow cytometry. The course will cover theoretical bases of fluorescence, its detection, multiparametric analyses and practical applications in clinical diagnosis and scientific research.

Brief outline of the course:

Fluorescence: physical bases, detection, various designs of instruments exploiting fluorescence detection, fluorescent dyes, fluorescently labeled antibodies

Flow cytometry: principle of hydrodynamic focusing, signal detection, analog and digital data processing, data plotting, gating. Various types of analyses, basic applications, summary of commercial hardware and software.

Cell sorting: physical principles of cell sorting – advatages and disadvantages, sorting strategies, summary of applications and commercial hardware and software.

Practical software data analyses.

Recommended literature:

1. H.M. Shapiro: Practical Flow Cytometry, WILEY-LISS, 2003. (ISBN:0-471-41125-6)

2. A.L. Givan: Flow Cytomtery: First principles, WILEY-LISS, 2001, (ISBN 0-471-22394-8)

3. J. Dolezel a kol.: Flow Cytometry with Plant Cells, Willey-VCH, 2007, (ISBN:

978-3-527-31487-4)

Course language:

Notes:

Course assessment							
Total number of assessed students: 153							
А	В	С	D	Е	FX	Ν	Р
68.63 1.31 5.88 1.96 1.96 0.0 0.0 20.26							
Provides: F	Provides: RNDr. Rastislav Jendželovský, PhD.						

Date of last modification: 02.09.2015

Approved: prof. RNDr. Peter Fedoročko, CSc.

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	Science			
Course ID: ÚBEV/ ZNC/04	Course name: Journals not registered in the Current Contents Connect database and published abroad			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:			
Number of ECTS cr	edits: 5			
Recommended seme	ester/trimester of the cours	e:		
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 modifica	ation:			
Approved: prof. RN	Dr. Peter Fedoročko, CSc.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	science			
Course ID: ÚBEV/ DNC/04	Course name: Journals not registered in the Current Contents Connect database and published in the country of residence			
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	edits: 5			
Recommended seme	ester/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended liter	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 42			
	abs n			
	100.0 0.0			
Provides:				
Date of last modific:	ation:			
Approved: prof. RN	Dr. Peter Fedoročko, CSc.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	Science			
Course ID: ÚBEV/ ZKC/04	Course name: Journals registered in the Current Contents Connect database and published abroad			
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	edits: 20			
Recommended seme	ester/trimester of the cour	se:		
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: 245			
	abs n			
	100.0 0.0			
Provides:				
Date of last modifica	ation:			
Approved: prof. RN	Dr. Peter Fedoročko, CSc.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	Science			
Course ID: ÚBEV/ DKC/04	Course name: Journals registered in the Current Contents Connect database and published in the country of residence			
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	edits: 15			
Recommended seme	ester/trimester of the cours	e:		
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	essed students: 16			
	abs n			
	100.0 0.0			
Provides:		·		
Date of last modifica	ation:			
Approved: prof. RN	Dr. Peter Fedoročko, CSc.			

COURSE INFORMATION LETTER				
University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ MOBM/09				
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 3 Per Course method: pre	re / Practice rse-load (hours): study period: 14 / 42			
Number of ECTS credits: 4				
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
1		nolecular biology and with their applications in for practical work in molecular biology laboratory.		
culturing of tumour of protein concentrat chain reaction, Weste	practice for work under st cell lines, methods for isola- tion in cell lysates, measure ern blot, dot-blot, fluorescent	terile/aseptic conditions in cell culture lab, cell ation of nucleic acids from cells, determination ments of enzymatic concentrations. Polymerase microscopy, flowcytometric analyses of cellular arameters, proteomic applications).		
Humana Press, 2009 G. Ecker et al.: Trans Principles in Medicir	nann: Proteomics: Methods			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 32			
	Ν	Р		
	0.0	100.0		
Provides: RNDr. Ver Šemeláková, PhD.	onika Sačková, PhD., doc. R	NDr. Peter Solár, PhD., RNDr. Martina		
Date of last modifica	ntion: 03.05.2015			
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.			

University: P. J. Šafa	arik University in Košice			
Faculty: Faculty of S	Science			
Course ID: ÚBEV/ NZ/04	Course name: Non-reviewed collections of papers and monographs published abroad or in the country of residence			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): dy period:			
Number of ECTS ci				
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: 125			
	abs n			
	100.0 0.0			
Provides:				
Date of last modific	ation:			
Approved: prof. RN	Dr. Peter Fedoročko, CSc.			

University: P. J. Šafá	arik University in Košice			
Faculty: Faculty of S	Science			
Course ID: ÚBEV/ RZ/04	Course name: Peer-reviewed collections of papers and monographs published abroad or in in the country of residence			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): dy period:			
Number of ECTS ci				
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:				
Notes:				
Course assessment Total number of asse	essed students: 281			
	abs n			
	100.0 0.0			
Provides:				
Date of last modific	ation:			
Approved: prof. RN	Dr. Peter Fedoročko, CSc.			

University: P. J. Šafá	rik University in Koši	ice		
Faculty: Faculty of S	Science			
Course ID: ÚBEV/ FARM/09				
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 3 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 42	2		
Number of ECTS cr	edits: 8			
Recommended seme	ester/trimester of the	course:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
1		introduction to the fundamental Pharmacology and uses d in medical practice.		
effects, routes of dru Special pharmacolog	(pharmacokinetic and g application. y including drugs affe drugs affecting CNS (pharmacodynamic principles), factors influencing drug ecting the autonomic nervous system, myorelaxants and (drugs used to treat psychiatric disorders, antiepileptics,		
Recommended liter: Finkel et al.: Lippinc pp. 564.		vs: Pharmacology 4th edition, Wolters Kluwer, 2009,		
Course language:				
Notes:				
Course assessment Total number of asse	essed students: 35			
	N P			
	0.0	100.0		
Provides: prof. MVD	Dr. Ján Mojžiš, DrSc., 2	MUDr. Iveta Radváková, PhD.		
Date of last modifica	ation: 03.05.2015			

Faculty: Fac		5	n Košice				
Faculty: Faculty of Science							
Course ID: U BTR1/06	urse ID: ÚBEV/ Course name: Plant Biotechnology R1/06						
	e: Lecture ded cours 2 / 3 Per st	/ Practice e-load (hours udy period: 2	s):				
Number of F	ECTS cred	lits: 6					
Recommend	ed semest	er/trimester	of the cours	e:			
Course level	: I., II., III.						
Prerequisitie	es:						
Conditions f Active partic oral examina	cipation at	completion: the practicals,	, written test,	protocols,			
Learning ou To gain theor		practical kno	wledge on pl	ant tissue cu	lture in vitro		
embryoids a research and	ant tissue c nd organs praxis. Cry	urse: culture. Genet cultured in opreservation s and express	vitro under n of plant cell	sterile condi	itions. Use c	of the tissue	culture in
Recommend		ire: iotechnology.		•		-	
	l.): An Intr	oduction to N	Iolecular Bic	otechnology.	Willey-Black	kwell, 2011,	601 pp.
Wink M. (Ed Periodicals a	nd Interne		Iolecular Bio	otechnology.	Willey-Black	cwell, 2011,	601 pp.
Wink M. (Ec Periodicals a Course lange	nd Interne		Iolecular Bio	otechnology.	Willey-Black	kwell, 2011,	601 pp.
Wink M. (Ed Periodicals a	nd Interne		Iolecular Bic	otechnology.	Willey-Black	kwell, 2011,	601 pp.
Wink M. (Ed Periodicals a Course lang Notes: Course asses	uage:			otechnology.	Willey-Black	cwell, 2011,	601 pp.
Wink M. (Ed Periodicals a Course lang Notes: Course asses	uage:	t sources		E	FX	well, 2011,	601 pp.
Wink M. (Ed Periodicals a Course lang Notes: Course asses Total numbe	and Interne uage: ssment r of assesse	t sources ed students: 1	59				
Wink M. (Ed Periodicals a Course lang Notes: Course asses Total number A	sment r of assesse B 19.5 of. RNDr. 1	t sources ed students: 1 C 13.84	59 D 8.81	E 11.32	FX 3.14	N 0.0	P 4.4
Wink M. (Ed Periodicals a Course lange Notes: Course asses Total numbe A 38.99 Provides: pro	sment r of assesse B 19.5 of. RNDr. 1 D.	t sources ed students: 1 C 13.84 Eva Čellárová	59 D 8.81 á, DrSc., RNI	E 11.32	FX 3.14	N 0.0	P 4.4

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ ZSP/04	JBEV/ Course name: Realisation of study/research stay abroad				
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: 6., 8.			
Course level: III.	Course level: III.				
Prerequisities:					
Conditions for cours	Conditions for course completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 95				
	abs n				
	100.0 0.0				
Provides:					
Date of last modifica	ition:				
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ IG/04	e ID: ÚBEV/ Course name: Receiving a grant under Internal Scientific Grant System (VVGS)		
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	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 o	course:		
Recommended litera	ature:		
Course language:			
Notes:	· · · · · · · · · · · · · · · · · · ·		
Course assessment Total number of asse	ssed students: 150		
	abs	n	
100.0 0.0			
Provides:			
Date of last modifica	ation:		
Approved: prof. RN	Dr. Peter Fedoročko, CSc.		

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚBEV/ VPBB/11					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:				
Number of ECTS cr	redits: 2				
Recommended seme	ester/trimester of the cours	e:			
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: 17				
	abs n				
100.0 0.0					
Provides:					
Date of last modific:	ation:				
Approved: prof. RN	Dr. Peter Fedoročko, CSc.		_		

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ SSOL/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 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: 239				
	abs n				
100.0 0.0					
Provides:					
Date of last modifica	ntion:				
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: Dek. PF UPJŠ/JSD/14					
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d Course method: present					
Number of ECTS cro	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 assessed students: 135					
abs n					
100.0 0.0					
Provides: prof. RNDr. Vladimír Zeleňák, DrSc.					
Date of last modification: 03.05.2015					
Approved: prof. RNI	Approved: prof. RNDr. Peter Fedoročko, CSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ VPSV/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					
	ster/trimester of the cours	e: 6., 8.			
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: 18				
	abs n				
100.0 0.0					
Provides:					
Date of last modifica	ation:				
Approved: prof. RN	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ VYS/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	edits: 2				
Recommended seme	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: 226				
	abs n				
100.0 0.0					
Provides:					
Date of last modifica	ntion:				
Approved: prof. RNI	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ PPC/04	e				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:				
Number of ECTS cr	edits: 1				
Recommended seme	ster/trimester of the cou	·se:			
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: 462				
	abs n				
100.0 0.0					
Provides:		•			
Date of last modifica	ation:				
Approved: prof. RN	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ PPC/04	e				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:				
Number of ECTS cr	edits: 1				
Recommended seme	ster/trimester of the cou	·se:			
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: 462				
	abs n				
100.0 0.0					
Provides:		•			
Date of last modifica	ation:				
Approved: prof. RN	Dr. Peter Fedoročko, CSc.				

	University:	ΡI	Šafárik	University	in Košice
I	University.	1. J.	Salarik	Oniversity	III KUSICC

Faculty: Faculty of Science

Course ID: ÚBEV/	Course name: Vertebrate Embryology
EMZ1/00	

Course type, scope and the method: Course type: Lecture 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:

Course level: II., III.

Prerequisities:

Conditions for course completion:

Oral examination.

Learning outcomes:

To provide the students with the basic facts on normal development of animals.

Brief outline of the course:

History of embryology. Asexual and sexual reproduction. Gametogenesis. Conversion of germ cells into female and male gametes, sexual hormones. Fertilization. Development of the embryo. Cleavage of the zygote. The main concepts of embryonic

development of amphioxus: Blastulation, gastrulation, germ layers formation, throughout organogenesis. Cleavage, blastulation, gastrulation and notogenese of the amphibians. Cleavage, blastulation, gastrulation and notogenese of the reptiles. Cleavage, blastulation, gastrulation and notogenese of the aves. Cleavage, blastulation, gastrulation and notogenese of the mammals. Development of the foetal membranes. Implantation. Placentation in mammals. Organogenesis. Muscular and skeletal systems. Digestive system. Cardiovascular system Respiratory system. Urinary system. Male and female reproductive systems. Nervous system. Eye and ear.

Recommended literature:

Langman, J.: Medical Embryology. Williams & Wilkins, Baltimore, London, 1981 Moore, K. L., Persaud, T. V. N.: Before we are born. W.B. Saunders Company Philadelphia, 1993

Course language:

Notes:

Course assessment

Total number of assessed students: 158

А	В	С	D	Е	FX	Ν	Р
63.92	17.72	10.13	2.53	2.53	0.63	0.0	2.53
Provides: doc. RNDr. Zuzana Daxnerová, CSc.							
Date of last modification: 03.05.2015							

Approved: prof. RNDr. Peter Fedoročko, CSc.

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ POVK/04					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:				
Number of ECTS cr	redits: 2				
Recommended seme	ster/trimester of the cours	e:			
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: 45				
	abs n				
100.0 0.0					
Provides:					
Date of last modifica	ation:				
Approved: prof. RN	Dr. Peter Fedoročko, CSc.				

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ PDS/14	Course name: Writing Dissertation Work		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS credits: 0			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 38		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modification:			
Approved: prof. RNDr. Peter Fedoročko, CSc.			