

# CONTENT

1. Advanced programming in Python.....	4
2. Algorithms and data structures.....	6
3. Alternative Education.....	8
4. Anthropology of Art I.....	9
5. Anthropology of Art II.....	10
6. Automata and formal languages.....	11
7. Bachelor Project.....	13
8. Bachelor Thesis and its Defence.....	14
9. Bachelor's Thesis Defense.....	16
10. Biology of Children and Adolescents.....	17
11. Chapters from World Literature.....	18
12. Chapters from the Contemporary Slovak Literature after 1945.....	19
13. Chapters from the Contemporary Slovak Literature after 1989.....	20
14. Chapters from the Slovak Interwar Literature.....	21
15. Chapters from the Slovak Literature of Classicism and Romanticism.....	22
16. Chapters from the Theory of Literature.....	23
17. Comparative Grammar of West Slavic Languages.....	24
18. Computability theory.....	25
19. Computational and cognitive neuroscience I.....	27
20. Computer network Internet.....	29
21. Contemporary Slovak Language - Lexicology.....	31
22. Contemporary Slovak Language - Morphology.....	32
23. Contemporary Slovak Language - Stylistics.....	33
24. Contemporary Slovak Language – Syntax.....	34
25. Corpus Linguistics.....	35
26. Creativity in Writing.....	36
27. Cryptographic systems and their applications.....	37
28. Culture of Spoken Discourse.....	39
29. Database systems.....	40
30. Database systems.....	42
31. Development of the Slovak Drama.....	44
32. Drug Addiction Prevention in University Students.....	45
33. Educational software.....	47
34. English Language for Students of Slovak Studies 1.....	49
35. Essentials of Informatics.....	51
36. Final Thesis Seminar 1.....	52
37. Final Thesis Seminar 2.....	53
38. Folk Literature.....	54
39. Fundamentals of Experimental Phonetics 1.....	55
40. Fundamentals of Experimental Phonetics 2.....	56
41. Fundamentals of Slavic Studies and Old Church Slavonic.....	57
42. Fundamentals of Sociology.....	58
43. Fundamentals of Theory and Practice of Literary Translation.....	59
44. History of European Civilisation.....	60
45. History of International Relations in the 19th and 20th Century.....	61
46. History of Slovakia and Slovaks.....	62
47. Inclusive Pedagogy.....	63
48. Information and Communication Technologies.....	64

49. Interpretation of Old Church Slavonic Texts.....	66
50. Introduction to Corpus Linguistics.....	67
51. Introduction to Language Studies.....	68
52. Introduction to Literary Studies.....	69
53. Introduction to computer graphics.....	70
54. Introduction to information security.....	71
55. Introduction to neural networks.....	73
56. Introduction to study of informatics.....	75
57. Journalistic Genres in Print and Electronic Media I.....	77
58. Journalistic Genres in Print and Electronic Media II.....	78
59. Latin Language for Students of Philology.....	79
60. Literary Excursion 1.....	81
61. Literature for Children and Young Adults.....	82
62. Literature in Film and Television.....	83
63. Mathematics I for informaticians.....	84
64. Mathematics II for informaticians.....	86
65. Methods of Linguistic Analysis.....	88
66. Multiculturalism and Multicultural Education.....	89
67. Old Slovak Literature.....	90
68. Operating systems.....	91
69. Orthography and Orthoepey.....	93
70. Pedagogy.....	94
71. Pedophonetic and Logopedic Minimum.....	95
72. Phonetics.....	96
73. Phonology.....	97
74. Positive Psychology.....	98
75. Principles of computers.....	100
76. Pro-seminar to bachelor thesis.....	102
77. Programming environments in schools I.....	104
78. Programming environments in schools II.....	106
79. Programming of robotic kits.....	108
80. Programming of web-pages.....	110
81. Programming, algorithms, and complexity.....	112
82. Programming, algorithms, and complexity.....	114
83. Psychology.....	116
84. Psychology of Everyday Life.....	117
85. Resolving computer security incidents.....	119
86. Russian Language for Students of Philology 1.....	121
87. Russian Language for Students of Philology 2.....	123
88. Russian Language for Students of Philology 3.....	125
89. School Administration and Legislation.....	127
90. Seaside Aerobic Exercise.....	128
91. Selected Topics in Philosophy of Education (General Introduction).....	130
92. Seminar in Written Discourse Analysis 1.....	131
93. Seminar in Written Discourse Analysis 2.....	132
94. Semiotic Nature of Literature.....	133
95. Semiotics of Aesthetic Objects.....	134
96. Semiotics of Biblical Texts.....	135
97. Slavonic Language.....	136

98. Slovak Historical Lexicology and Etymology.....	138
99. Slovak Interwar Literature.....	139
100. Slovak Literature After 1945.....	140
101. Slovak Literature and Slovak Literature.....	141
102. Slovak Literature of Classicism and Romanticism.....	142
103. Slovak Literature of Realism and Modernism.....	143
104. Social and Political Context of Education.....	144
105. Software engineering.....	146
106. Spirituality in a Literary Text.....	148
107. Sports Activities I.....	149
108. Sports Activities II.....	151
109. Structural Indoeuropeanism Course.....	153
110. Structure formats and representation of data.....	154
111. Student Research Project 1.....	156
112. Student Research Project 2.....	157
113. Students' Digital Literacy.....	158
114. Summer Course-Rafting of TISA River.....	160
115. Symbolic logic.....	162
116. Theory of Education.....	164
117. Theory of Literature 1.....	165
118. Typographical systems.....	166

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ PPPy/18	<b>Course name:</b> Advanced programming in Python
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 6.	
<b>Course level:</b> I., N	
<b>Prerequisites:</b> ÚINF/PAZ1a/15	
<b>Conditions for course completion:</b> At least 50 % of the marks in the continuous assessment A minimum of 50 % marks in the mid-term and end-of-semester practical tests or The final project - 100%	
<b>Learning outcomes:</b> Implement solutions to selected problems in Python using available modules. Use and implement non-trivial algorithms to solve selected problems. Use an object-oriented approach to problem solving. Program in Python in an object-oriented manner using Python specifics. Test programs. Implement parallel computing.	
<b>Brief outline of the course:</b> 1. Introduction to the environment, basic features of Python, simple and structured data types. 2. Input, output, function definition, lambda function, generator notation, function as parameter, string formatting. 3. Control structures, iterating over data structures, context manager. 4. Exception handling and exception raising. Philosophy of exceptions in Python. 5. Working with files. Serialization and deserialization of data - json and pickle protocol. Text and binary files. Manipulation with files. Open data. 6. Object-oriented programming 1. Design of custom classes, special methods, properties, philosophy of accessing methods and attributes. 7. Object-oriented programming 2. Comparison and differences with Java. Multiple inheritance. 8. Method overloading. Static methods, abstract classes, data class. 9. Decorators, memoization, modules, packages. 10. Code validation (debugging), testing (doctest, unittest), test-driven development. 11. Parallel computing, processes, process triggering and inter-process communication (shared variable, pipe, queue). 12. Graphical program design and implementation.	
<b>Recommended literature:</b> PILGRIM, Mark. Dive into Python 3. 2. United States of America: Apress, 2004. ISBN 978-1430224150. Dostupné také z: <a href="https://diveintopython3.net/">https://diveintopython3.net/</a>	

SHIPMAN, John W. Tkinter 8.5 reference: a GUI for Python. Socorro, NM 87801: New Mexico Tech Computer Center, 2013. Dostupné také z: <https://anzeljg.github.io/rin2/book2/2405/docs/tkinter/tkinter.pdf>

LOTT, Steven F. Mastering Object-oriented Python. Birmingham B3 2PB, UK: Packt Publishing, 2014. ISBN 978-1-78328-097-1.

**Course language:**

Slovak language, knowledge of English language is only required to read documentation of Python.

**Notes:**

**Course assessment**

Total number of assessed students: 65

A	B	C	D	E	FX
7.69	13.85	18.46	18.46	24.62	16.92

**Provides:** PaedDr. Ján Guniš, PhD.

**Date of last modification:** 10.02.2022

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ ASU1/15	<b>Course name:</b> Algorithms and data structures
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 4	
<b>Recommended semester/trimester of the course:</b> 4.	
<b>Course level:</b> I., N	
<b>Prerequisites:</b> ÚINF/PAZ1a/15 and ÚINF/PAZ1b/15	
<b>Conditions for course completion:</b> Practice activities, homeworks and midterm exam. Final examination consisting of practice and theoretical test.	
<b>Learning outcomes:</b> Understand and learn algorithmic paradigms and data structures. Analyse time complexity of these algorithms.	
<b>Brief outline of the course:</b> Algorithms' time and space asymptotic complexity. Main Theorem. Amortized complexity. Brute Force. Backtrack. Divide and Conquer. Dynamic programming. Comparison and non-comparison sort algorithms. Sweep line algorithms. Graph Theory Algorithms. Data structures – queue, stack, priority queue, heap, prefix sum, binary search trees, interval trees, union & find, trie.	
<b>Recommended literature:</b> 1, Laaksonen A.: Guide to Competitive Programming: Learning and Improving Algorithms Through Contests (Undergraduate Topics in Computer Science), Springer, 2017, ISBN 978-3319725468 2, Forišek M., Steinová M.: Explaining Algorithms Using Metaphors. Springer Briefs in Computer Science, Springer (2013), ISBN 978-1-4471-5018-3 3, R. Sedgewick, K. Wayne: Algorithms (4th Edition), Addison-Wesley Professional, 2011, ISBN 978-0321573513, <a href="http://algs4.cs.princeton.edu/home/">http://algs4.cs.princeton.edu/home/</a> 4, Open Data Structures: <a href="http://opendatastructures.org/">http://opendatastructures.org/</a>	
<b>Course language:</b> Slovak or english	
<b>Notes:</b> Content prerequisites: - programming skills in some programming language (Python/Java/C++/...) - mathematics: -- computing with polynomials, logarithmic and exponential functions -- computing limits of sequences, L'Hospital rule	

<b>Course assessment</b>					
Total number of assessed students: 184					
A	B	C	D	E	FX
13.59	4.35	16.85	25.0	36.96	3.26
<b>Provides:</b> RNDr. Rastislav Krivoš-Belluš, PhD.					
<b>Date of last modification:</b> 08.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajči, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KPE/ ALP/06		<b>Course name:</b> Alternative Education			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 318					
A	B	C	D	E	FX
69.18	25.16	2.83	0.63	0.31	1.89
<b>Provides:</b> Mgr. Katarína Petříková, PhD.					
<b>Date of last modification:</b> 20.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ ANTUM1/15		<b>Course name:</b> Anthropology of Art I			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 3					
<b>Recommended semester/trimester of the course:</b> 1., 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 609					
A	B	C	D	E	FX
14.94	16.09	25.94	20.85	15.11	7.06
<b>Provides:</b> PhDr. Lukáš Šutor, PhD.					
<b>Date of last modification:</b> 04.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ ANTUM2/15		<b>Course name:</b> Anthropology of Art II			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 2., 4., 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b> KSSFaK/ANTUM1/15					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 512					
A	B	C	D	E	FX
17.58	15.82	30.66	18.55	13.48	3.91
<b>Provides:</b> PhDr. Lukáš Šutor, PhD.					
<b>Date of last modification:</b> 04.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ AFJ1a/15	<b>Course name:</b> Automata and formal languages
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 4	
<b>Recommended semester/trimester of the course:</b> 4.	
<b>Course level:</b> I., N	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Oral examination.	
<b>Learning outcomes:</b> To provide theoretical background for studying computer science in general, by giving the necessary knowledge in theory of automata.	
<b>Brief outline of the course:</b> 1: Chomsky hierarchy of grammars: alphabet, symbol (letter, character), transitive closure, word (string), empty word (empty string), length of a string, concatenation, language, grammar, nonterminal symbol, terminal symbol, initial nonterminal (initial symbol), grammar rule, derivation step, language generated by a grammar, Chomsky hierarchy of grammars - phrase-structure, context sensitive, context free, regular 2: Deterministic finite state automata: finite state automaton, state, input symbol, output symbol, initial state, transition function, output function, examples of automata and their graphic representation, generalized transition and output functions and their basic properties 3: Reduction of automata I: equivalent automata, minimal (optimal) automaton, reachable state, properties of reachable states, elimination of unreachable states 4: Reduction of automata II: equivalent states, k-equivalent states, properties of equivalence and k-equivalence, relation between k-equivalence and (k+1)-equivalence, partitioning the state set into equivalence classes, elimination of equivalent states 5: Reduction of automata III: proof of correctness, unambiguity, and optimality of reduced automaton, testing equivalence of two automata 6: Deterministic finite state acceptors: basic definitions, language recognized by a finite state acceptor, common properties of acceptors and automata with an output, minimizing a finite state acceptor 7: Operations with regular languages: complement, intersection, union, difference, symmetric difference, testing of emptiness, inclusion, equality, and disjointness for regular languages 8: Nondeterministic finite state acceptors: definition, transition function, language recognized by a nondeterministic acceptor, elimination of nondeterminism 9: epsilon-acceptors: definition, properties, elimination of epsilon-transitions	

10: Regular grammars: regular grammar, extended regular grammar, transformation of acceptor to a regular grammar, transformation of extended regular grammar to an epsilon-acceptor 11: Regular expressions I: basic properties, transformation of regular expression to an epsilon-acceptor 12: Regular expressions II: regular equations, valid algebraic manipulations with regular expressions, solving an equation with a single unknown variable, solving a system of regular equations, transformation of acceptor to a regular expression 13: Another constructions: review of transformations among various representations, an example of a direct transformation of a grammar to a regular expression, closure of the class of regular languages under another language operations – concatenation and Kleene star, mirror image 14: Another operations: homomorphism and inverse homomorphism, a context-free language that is not regular					
<b>Recommended literature:</b> J.E. Hopcroft, R.Motwani, J.D. Ullman: Introduction to automata theory, languages, and computation, Addison-Wesley, 2001. J. Shallit: A second course in formal languages and automata theory, Cambridge University press, 2009. M. Sipser: Introduction to the theory of computation, Thomson Course Technology, 2006.					
<b>Course language:</b> Slovak or English					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 895					
A	B	C	D	E	FX
26.59	18.21	23.46	17.09	9.83	4.8
<b>Provides:</b> prof. RNDr. Viliam Geffert, DrSc., RNDr. Dominika Pališínová, RNDr. Juraj Šebej, PhD.					
<b>Date of last modification:</b> 23.11.2021					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ BKP/14	<b>Course name:</b> Bachelor Project
<b>Course type, scope and the method:</b> <b>Course type:</b> <b>Recommended course-load (hours):</b> <b>Per week: Per study period:</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 5.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b>	
<b>Learning outcomes:</b>	
<b>Brief outline of the course:</b>	
<b>Recommended literature:</b>	
<b>Course language:</b>	
<b>Notes:</b>	
<b>Course assessment</b> Total number of assessed students: 7	
abs	n
100.0	0.0
<b>Provides:</b>	
<b>Date of last modification:</b>	
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.	

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ BPO/14	<b>Course name:</b> Bachelor Thesis and its Defence
<b>Course type, scope and the method:</b> <b>Course type:</b> <b>Recommended course-load (hours):</b> <b>Per week: Per study period:</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 4	
<b>Recommended semester/trimester of the course:</b>	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> The bachelor thesis is the result of the student's own work. It must not show elements of academic fraud and must meet the criteria of good research practice defined in the Rector's Decision no. 21/2021, which lays down the rules for assessing plagiarism at Pavol Jozef Šafárik University in Košice and its components. Fulfillment of the criteria is verified mainly in the supervision process and in the process of thesis defense. Failure to do so is reason for disciplinary action.	
<b>Learning outcomes:</b> The bachelor's thesis demonstrates mastery of the basics of theory and professional terminology of the field of study, acquisition of knowledge, skills and competencies in accordance with the declared profile of the graduate of the study program, as well as the ability to apply them creatively in solving selected field problems. The bachelor thesis may have elements of compilation. The student demonstrates the ability of independent professional work in terms of content, formal and ethical. Further details on the bachelor thesis are determined by Directive no. 1/2011 on the basic requirements of final theses and the Study Regulations of UPJŠ in Košice for the 1st, 2nd and combined 1st and 2nd degree.	
<b>Brief outline of the course:</b> 1. Elaboration of the bachelor thesis in accordance with the instructions of the supervisor. 2. Presentation of the results of the bachelor's thesis before the examination commission. 3. Answering questions related to the topic of the bachelor thesis within the discussion.	
<b>Recommended literature:</b> The recommended literature is determined individually in accordance with the topic of the bachelor's thesis.	
<b>Course language:</b> Slovak and optionally English.	
<b>Notes:</b>	

<b>Course assessment</b>					
Total number of assessed students: 134					
A	B	C	D	E	FX
45.52	28.36	11.94	7.46	6.72	0.0
<b>Provides:</b>					
<b>Date of last modification:</b> 28.11.2021					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/OZPb/15		<b>Course name:</b> Bachelor's Thesis Defense			
<b>Course type, scope and the method:</b> <b>Course type:</b> <b>Recommended course-load (hours):</b> <b>Per week: Per study period:</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b>					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 85					
A	B	C	D	E	FX
55.29	18.82	12.94	8.24	1.18	3.53
<b>Provides:</b>					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> ÚBEV/ BDD/05		<b>Course name:</b> Biology of Children and Adolescents			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 0 <b>Per study period:</b> 28 / 0 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4., 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b> Written test					
<b>Learning outcomes:</b> Acquisition of basic morphological and physiological knowledge about individual organs and systems of the human body with a focus on the specifics of childhood and adolescence. Familiarity with developmental and growth characteristics and with the most common diseases in these stages of ontogenesis.					
<b>Brief outline of the course:</b> Human ontogenesis. Postnatal development. Age specific features of skeletal and muscular, circulatory, respiratory, gastrointestinal and urinary systems. Reproductive system. Endocrine system. Nervous system. Age specifics of selected diseases and drug dependence arise. Human population and environment.					
<b>Recommended literature:</b> Drobný I., Drobná M.: Biológia dieťaťa pre špeciálnych pedagógov I. a II. Bratislava, PdF UK, 2000 Lipková V.: Somatický a fyziologický vývoj dieťaťa. Osveta Bratislava, 1980 Malá H., Klementa J.: Biológia detí a dorastu. Bratislava, SPN, 1989					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 1717					
A	B	C	D	E	FX
31.74	23.76	17.94	16.83	9.2	0.52
<b>Provides:</b> doc. RNDr. Monika Kassayová, CSc.					
<b>Date of last modification:</b> 20.04.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/KSVL/07		<b>Course name:</b> Chapters from World Literature			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 118					
A	B	C	D	E	FX
36.44	22.03	20.34	11.02	5.93	4.24
<b>Provides:</b> doc. Marián Milčák, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ KSSL45/11		<b>Course name:</b> Chapters from the Contemporary Slovak Literature after 1945			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 31					
A	B	C	D	E	FX
3.23	35.48	51.61	6.45	0.0	3.23
<b>Provides:</b> doc. Marián Milčák, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ KSSL89/15		<b>Course name:</b> Chapters from the Contemporary Slovak Literature after 1989			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 0					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
<b>Provides:</b> doc. Marián Milčák, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/KML/07		<b>Course name:</b> Chapters from the Slovak Interwar Literature			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 104					
A	B	C	D	E	FX
39.42	17.31	16.35	15.38	7.69	3.85
<b>Provides:</b> doc. PaedDr. Ivica Hajdučková, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/KKR/07		<b>Course name:</b> Chapters from the Slovak Literature of Classicism and Romanticism			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 150					
A	B	C	D	E	FX
12.67	11.33	17.33	14.67	24.67	19.33
<b>Provides:</b> prof. Mgr. Ján Sabol, PhD., ArtD.					
<b>Date of last modification:</b> 19.04.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/KTL/07		<b>Course name:</b> Chapters from the Theory of Literature			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 2.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 295					
A	B	C	D	E	FX
25.76	19.32	12.2	20.0	14.58	8.14
<b>Provides:</b> Mgr. Viktória Hégerová					
<b>Date of last modification:</b> 03.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/PGZJ/15		<b>Course name:</b> Comparative Grammar of West Slavic Languages			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 3					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 194					
A	B	C	D	E	FX
41.75	22.68	19.59	10.82	3.09	2.06
<b>Provides:</b> doc. PhDr. Marianna Sedláková, PhD.					
<b>Date of last modification:</b> 09.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ TVY/15	<b>Course name:</b> Computability theory
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 4	
<b>Recommended semester/trimester of the course:</b> 5.	
<b>Course level:</b> I., II.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Two written examinations focused on the construction of Turing machines, creating sequences of (primitive) recursive functions, solving examples. Oral exam focused on the relationship between classes of recursive and computable functions, the problem of stopping a Turing machine.	
<b>Learning outcomes:</b> Knowledge of computational model of Turing machine, Goedelian arithmetization, and relationship between Turing computability and recursivity of functions.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Turing machine, basic principles of work of Turing machine, formalization of basic notions</li> <li>2. Shifting of states, compositions of machines, computations on composed machines</li> <li>3. Modifications of configuration</li> <li>4. Elementary Turing machines</li> <li>5. Compositions of elementary Turing machines</li> <li>6. Primitively recursive functions</li> <li>7. Primitively recursive predicates</li> <li>8. Functions and predicates from number theory</li> <li>9. Goedelian arithmetization of Turing computability</li> <li>10. Recursive functions</li> <li>11. Relationship of recursivity and Turing computability</li> <li>12. Halting problem</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. BRIDGES, Douglas. Computability, A Mathematical Sketch book. Springer--Verlag, 1994. ISBN:: 978-0387941745</li> <li>2. BUKOVSKÝ, Lev. Teória algoritmov, ES UPJŠ, Košice, 1999. ISBN 8070973730</li> <li>3. MACHTEY, Michael a Paul YOUNG. An Introduction to the General Theory of Algorithms, North--Holland, Amsterdam 1978.</li> <li>4. KRAJČI, Stanislav. Teória vypočítateľnosti. <a href="http://ics.upjs.sk/~krajci/skola/vyucba/ucebneTexty/vypocitatelnost.pdf">http://ics.upjs.sk/~krajci/skola/vyucba/ucebneTexty/vypocitatelnost.pdf</a></li> </ol>	
<b>Course language:</b>	

Slovak					
<b>Notes:</b>					
<b>Course assessment</b>					
Total number of assessed students: 299					
A	B	C	D	E	FX
49.16	11.71	12.04	5.35	5.69	16.05
<b>Provides:</b> prof. RNDr. Stanislav Krajči, PhD., doc. RNDr. Ľubomír Antoni, PhD.					
<b>Date of last modification:</b> 04.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajči, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ UNV1/15	<b>Course name:</b> Computational and cognitive neuroscience I
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 5	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I., N	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Midterm exam Final exam consisting of written and/or oral part	
<b>Learning outcomes:</b> Overview anatomy, physiology, and cognitive processes in the human brain with focus on computational aspects of cognition and computational tools used in neuroscience.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Intro to neural and cognitive science</li> <li>2. Overview of anatomy and physiology of the central nervous system (CNS)</li> <li>3. Methods of study in neuroscience. Sensory, motor and associative brain areas.</li> <li>4. Neuron: anatomy, types, action potential</li> <li>5. Propagation of signals in the neuron, neural coding.</li> <li>6. Synaptic transmission and plasticity - neural basis of learning and memory.</li> <li>7. Psychology of memory and learning.</li> <li>8. Vision: Intro. Perception of brightness, edges, color. Model BCS/FCS. Perception of size and sitance.</li> <li>9. Hearing and auditory cognition.</li> <li>10. Language, psycholinguistics, speech perception and production.</li> <li>11. Attention.</li> <li>12. Crossmodal interaction (vision, hearing, touch).</li> <li>13. Reasoning and decision making.</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. Poeppel D., Mangun G., Gazzaniga M. (ed.): The Cognitive Neurosciences. 6th ed. MIT Press. 2020. ISBN-13: 978-0262043250</li> <li>2. Dayan P and LF Abbott: Theoretical Neuroscience - Computational and Mathematical Modeling of Neural Systems. MIT Press, 2005 ISBN-13: 978-0262541855</li> <li>3. Thagard P: Mind: Introduction to Cognitive Science, 2nd Edition. Bradford Books. ISBN-13†: †978-0262701099</li> </ol>	
<b>Course language:</b>	

Slovak or English					
<b>Notes:</b> Content prerequisites: Algebra, programming (Matlab).					
<b>Course assessment</b> Total number of assessed students: 32					
A	B	C	D	E	FX
18.75	21.88	25.0	21.88	9.38	3.13
<b>Provides:</b> doc. Ing. Norbert Kopčo, PhD., RNDr. Keerthi Kumar Doreswamy, Ing. Udbhav Singhal, Mgr. Ondrej Spišák					
<b>Date of last modification:</b> 08.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ PSIN/15	<b>Course name:</b> Computer network Internet
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 3 / 1 <b>Per study period:</b> 42 / 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 5	
<b>Recommended semester/trimester of the course:</b> 4.	
<b>Course level:</b> I., N	
<b>Prerequisites:</b> ÚINF/PAZ1a/15 or ÚINF/PRG1/15	
<b>Conditions for course completion:</b> Activity at exercises (max 18 points), home work (max 18 points), test (max 30 points). Verbal exam (min 25 points, max 50 points). Required minimum for passing the course is 55 points.	
<b>Learning outcomes:</b> Students will get the informations about principles and achitecture of Internet. They will understand the principles of ISO/OSI layers reference model for network communication. They will understand the meaning and usage of terms protocol, service, interface. They will analyze the parameters of communication channels, understand the function of interconnection devices (hub, switch, router). They will understand the structure of IP packets, addressing and how packets are transmitted, the principle of routing protocols and the creation of routing tables. They will understand the priciples of acknowledged TCP transport transmission and its implementation. They will know how to use the interface of UDP and TCP protocols in a program code. They will understand the basic application protocols of the Internet.	
<b>Brief outline of the course:</b> 1. Introduction to computer networks, internet connection types, delay and loss in packet-switched networks, ISO OSI reference model and TCP/IP protocols family. 2. Application layer: Web and HTTP, protocol FTP ,e-mail and protocols SMTP, POP3, IMAP, 3. Application layer: domain names and DNS, Peer-to-peer applications. Security in computer networks. 4. Transport layer: services, multiplexing and demultiplexing, protocol UDP, reliable data transfer 5. Transport layer: connection oriented transport protocol TCP, flow and congestion control. 6. Network Layer: Internet protocol IPv4, virtual circuit and datagram networks, packet fragmentation, routing table, application protocol DHCP 7. Network Layer: network address translation NAT, ICMP protocol, internet protocol IPv6 8. Network Layer: routing algorithms and protocols, broadcast and multicast routing 9. Link layer: error detection, multiple access methods CSMA/CD and CSMA/CA, Ethernet, frames, protocols ARP and RARP, link layer addressing 10. Link Layer and wireless and mobile networks: hub, switch, virtual LAN, 802.11 Wireless LAN, Bluetooth 802.15, WiMAX 802.16, Mobile IP, mobility in GSM 11. Physical Layer: Communication channels parameters, digital and analog encoding.	

<b>Recommended literature:</b> 1. J. F. Kurose, Keith W. Ross: Computer Networking: A Top-Down Approach, 7. edition, 2016 2. A. S. Tanenbaum: Computer Networks, 5. edition, Pearson, 2010 3. W. Stallings: Local and Metropolitan Area Networks, Prentice Hall, 2000 4. E. Comer, R.E. Droms: Computer Networks and Internets, Prentice Hall, 2003 5. W. R. Stevens: TCP/IP Illustrated, Vol.1: The Protocols, Addison-Wesley, 1994					
<b>Course language:</b> Slovak or English					
<b>Notes:</b> Content prerequisites: basic programming skills in Java					
<b>Course assessment</b> Total number of assessed students: 843					
A	B	C	D	E	FX
9.49	5.58	12.46	16.37	36.42	19.69
<b>Provides:</b> RNDr. Peter Gurský, PhD., doc. RNDr. JUDr. Pavol Sokol, PhD.					
<b>Date of last modification:</b> 04.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SLEX/15		<b>Course name:</b> Contemporary Slovak Language - Lexicology			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 2.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 315					
A	B	C	D	E	FX
7.94	8.57	17.46	18.41	29.84	17.78
<b>Provides:</b> PhDr. Iveta Bónová, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/MORF/15		<b>Course name:</b> Contemporary Slovak Language - Morphology			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 254					
A	B	C	D	E	FX
7.09	20.47	18.9	17.72	18.11	17.72
<b>Provides:</b> PhDr. Lucia Jasinská, PhD., doc. PhDr. Marianna Sedláková, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/STYL/15		<b>Course name:</b> Contemporary Slovak Language - Stylistics			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 175					
A	B	C	D	E	FX
14.86	24.57	32.0	18.29	9.14	1.14
<b>Provides:</b> Mgr. Lena Ivančová, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SYNT/15		<b>Course name:</b> Contemporary Slovak Language – Syntax			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 238					
A	B	C	D	E	FX
12.18	11.34	12.18	16.39	22.69	25.21
<b>Provides:</b> PhDr. Lucia Jasinská, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/KL/19		<b>Course name:</b> Corpus Linguistics			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 0					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
<b>Provides:</b>					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/TGT/15		<b>Course name:</b> Creativity in Writing			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 72					
A	B	C	D	E	FX
73.61	12.5	4.17	0.0	0.0	9.72
<b>Provides:</b> doc. Marián Milčák, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ KRS/15	<b>Course name:</b> Cryptographic systems and their applications
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 3 / 2 <b>Per study period:</b> 42 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 6	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I., II., N	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Homeworks, midterm written exam, active participation in laboratory exercises. Final written exam, possibly oral exam.	
<b>Learning outcomes:</b> This course covers the basic knowledge in understanding and using cryptography. The main focus is on definitions, theoretical foundations, and rigorous proofs of security, with some programming practice. Topics include symmetric and public key encryption, message integrity, hash functions, block cipher design and analysis, number theory, and digital signatures. The course also provides an introduction to cryptographic protocols for authentication and key management, including PKI and certificates.	
<b>Brief outline of the course:</b> Classical cryptography, basic information theory, cryptanalysis, security of classical ciphers. Symmetric ciphers - stream ciphers, block ciphers (DES, AES), modes of operation. Asymmetric ciphers - RSA, Elgamal, elliptic curve cryptosystems. Hash functions, message authentication codes, digital signatures. Authentication, key establishment and distribution, certificates.	
<b>Recommended literature:</b> 1. PAAR, Ch., PELZL, J.: Understanding Cryptography, Springer 2010. 2. STINSON, D. R., PATERSON, M. B.: Cryptography: Theory and Practice. CRC Press, 2018. 3. MAO, W. Modern Cryptography: Theory and Practice. Prentice Hall, 2003. 4. MENEZES, A., OORSCHOT, P. van, VANSTONE, S.: Handbook of Applied Cryptography. CRC Press, 1996. 5. SCHNEIER, B.: Applied Cryptography, 20th Edition, John Wiley & Sons Inc., 2015	
<b>Course language:</b> Slovak or English	
<b>Notes:</b> Content prerequisites: basic number theory and algebra, basic programming	

<b>Course assessment</b>					
Total number of assessed students: 119					
A	B	C	D	E	FX
14.29	9.24	14.29	13.45	31.93	16.81
<b>Provides:</b> doc. RNDr. Jozef Jirásek, PhD., RNDr. Rastislav Krivoš-Belluš, PhD.					
<b>Date of last modification:</b> 08.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/KHP/11		<b>Course name:</b> Culture of Spoken Discourse			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 1., 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 72					
A	B	C	D	E	FX
41.67	33.33	13.89	2.78	0.0	8.33
<b>Provides:</b> Mgr. Lena Ivančová, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ DBS1a/15	<b>Course name:</b> Database systems
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 5	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Demonstration of adequate mastery of the content standard of the subject in the ongoing and final evaluation, the ability to formulate a problem in the acquired terminology and solve it within a project. Written works during the semester, project. Written and oral exam.	
<b>Learning outcomes:</b> After completing the course, the student acquires the principles of relational databases, is able to apply standard data models, design relational databases and formulate filtering queries.	
<b>Brief outline of the course:</b> 1) Relational databases. Query language SQL, filtering. 2) Data types, operators, numerical, string and time functions. 3) JOIN operations. 4) AGGREGATION AND GROUP BY. 5) Data and database models. Relational scheme. RDB principles. Data integrity. 6) DB design, ER diagrams. 7) System commands about DB and tables. Cascading deletion and update. 8) Nested queries. ROLLUP. CASE expression. 9) Three-valued logic. Quantifiers and NOT. Set operations. 10) Data science and knowledge acquisition using R. 11) Data warehouses. Data cube. Pivot table. 12) Normalization of relational databases - 1. Relational algebra.	
<b>Recommended literature:</b> C.J. Date, Database Design and Relational Theory, 2012, O'Reilly Media, Inc., ISBN: 978-1-449-32801-6 J. Murach, Murach's MySQL, 3rd Edition, 2019, Mike Murach & Associates, Inc., ISBN-10: 1943872368 - R. Ramakrishnan, J. Gehrke, Database Management Systems, 2020, McGraw-Hill, ISBN13 9780071231510 - S. Krajčí: Databázové systémy, UPJŠ, 2005	



<b>Course language:</b> Slovak or English					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 910					
A	B	C	D	E	FX
11.43	10.0	17.47	22.2	31.98	6.92
<b>Provides:</b> doc. RNDr. Csaba Török, CSc., RNDr. Dávid Varga					
<b>Date of last modification:</b> 08.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ DBS1b/15	<b>Course name:</b> Database systems
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 6	
<b>Recommended semester/trimester of the course:</b> 4.	
<b>Course level:</b> I.	
<b>Prerequisites:</b> ÚINF/DBS1a/15	
<b>Conditions for course completion:</b> Demonstration of adequate mastery of the content standard of the subject in the ongoing and final evaluation, the ability to formulate a problem in the acquired terminology and solve it within a project. Written works during the semester, project. Written and oral exam.	
<b>Learning outcomes:</b> After completing the course, the student will be able to apply more sophisticated techniques of relational databases, theoretical analysis of functional dependencies of attributes and is able to work with non-relational databases.	
<b>Brief outline of the course:</b> 1) Introduction to SQL Server. Set operations. Window functions. 2) Stored procedures. System and user functions. 3) Views. CTE, recursion and transitive closure. 4) Transactions. Cursors. Pivoting. 5) Triggers and integrity. Physical organization of data, B-trees and indexes. 6) XML documents and their querying. JSON. 7) Functional dependencies and NF. 8) The latest normal form - ETNF. 9) Big data and NoSQL. 10) MongoDB, CRUD and cursors. 11) Aggregations and indices. 12) Replication and sharding.	
<b>Recommended literature:</b> - Date C.J., Database Design and Relational Theory, O'Reilly, 2012 - I. Ben-Gan, D. Sarka, A. Machanic, K. Farlee, T-SQL Querying, 2015, Microsoft Press, ISBN: 978-0-7356-8504-8 - I. Ben-Gan, T-SQL Fundamentals, Third Edition, 2016, Microsoft Press, ISBN: 978-1-5093-0200-0	

- L. Davidson, Pro SQL Server Relational Database Design and Implementation, 2021, Apress, ISBN-13: 978-1-4842-6496-6
- K. Chodorow, MongoDB: The Definitive Guide, O'Reilly, second edition, 2013

**Course language:**

Slovak or English

**Notes:**

If necessary, teaching, mid-term and final evaluation will be by distance form.

**Course assessment**

Total number of assessed students: 762

A	B	C	D	E	FX
9.84	8.53	12.6	24.41	34.51	10.1

**Provides:** doc. RNDr. Csaba Török, CSc., RNDr. Dávid Varga

**Date of last modification:** 08.01.2022

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/VSLD/07		<b>Course name:</b> Development of the Slovak Drama			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 360					
A	B	C	D	E	FX
23.61	30.0	21.39	13.06	6.39	5.56
<b>Provides:</b> PhDr. Lukáš Šutor, PhD.					
<b>Date of last modification:</b> 04.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> KPPaPZ/PUDB/15	<b>Course name:</b> Drug Addiction Prevention in University Students
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 3., 5.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> 1st of the evaluation: active participation in the training part (30p). 2nd part of the evaluation: active participation in workshops (20p). In total, students can get 50p and the final evaluation is as follows: 50 - 45: A; 44 - 40: B; 39-35: C; 34-30: D; 29 - 25: E 24 and less: FX. Detailed information in the electronic bulletin board of the course in AIS2. The teaching of the subject will be realized by a combined method.	
<b>Learning outcomes:</b> The student understands the principals of research data based prevention of risk behavior, can describe and explain the determinants of risk behavior as well as protective and risk factors for substance use. Student understands and adequately interprets the theory explaining the background of substance and non-substance addictions. The student is also able to state and classify the types and forms of prevention, strategies and approaches in prevention, can distinguish effective strategies from ineffective ones. The student is able to adequately interpret their experience with preventive activities in the group and assume their positive effect as well as limitations and threats.	
<b>Brief outline of the course:</b>	
<b>Recommended literature:</b> Orosová, O. a kol. (2012). Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ. Sloboda, Z., & Bukoski, J. (Eds.). (2006). Handbook of Drug Abuse Prevention: Theory, Science, and Practice. New York: Springer. National and international scientific journals.	
<b>Course language:</b> slovak	
<b>Notes:</b>	

<b>Course assessment</b>					
Total number of assessed students: 562					
A	B	C	D	E	FX
76.87	16.9	4.09	1.6	0.18	0.36
<b>Provides:</b> prof. PhDr. Oľga Orosová, CSc., Mgr. Lucia Barbierik, PhD., Mgr. Lenka Abrinková, PhD., Mgr. Frederika Lučanská, PhD., Mgr. Viera Čurová, Mgr. Marcela Majdanová, PhD.					
<b>Date of last modification:</b> 24.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/EDS/15	<b>Course name:</b> Educational software
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 5.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Conditions for ongoing evaluation: <ol style="list-style-type: none"> <li>1. Creation of a worksheet for student (with custom graphics).</li> <li>2. Creation of a multimedia educational presentation (with pictures, animations and sounds).</li> <li>3. Creation of an interactive educational quiz (with various types of quiz items).</li> <li>4. Creation of an instructional educational video.</li> </ol> Conditions for the final evaluation: <ol style="list-style-type: none"> <li>1. Creation and presentation of final project on the use of educational software in education.</li> </ol> Conditions for successful completion of the course: Obtaining at least 50% of points for ongoing and final assignments.	
<b>Learning outcomes:</b> Students will receive, resp. deepen their basic skills in working with: <ol style="list-style-type: none"> <li>a) presentation software, programs for creating and editing images, animations, diagrams, sounds, conceptual maps,</li> <li>b) programs for the creation of didactic tests, questionnaires, surveys,</li> <li>c) simulation and modeling software,</li> <li>d) selected subject-oriented educational programs,</li> </ol> Students present and discuss their idea of the use of educational software and educational Internet resources and tools in the selected school subject.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Overview of educational software and educational web resources and tools.</li> <li>2. Creating and processing images into teaching aids (word clouds, QR codes, diagrams, concept maps).</li> <li>3. Creating raster animations. Creating and processing sounds.</li> <li>4. Creation of instructional educational video.</li> <li>5. Electronic voting (Polleverywhere, Plickers, Kahoot!) and questionnaire creation (Google Forms).</li> <li>6. Creation of didactic tests (Google Forms, HotPotatoes).</li> <li>7. Collaborative web applications (mind42, miro, whiteboard, padlet).</li> <li>8. Online communication tools (BBB).</li> </ol>	

9. Complex online learning environments (Moodle).
10. Online educational projects and competitions (eTweening, WebQuest, PALMA junior).
11. Simulations and modelling (WolframAlpha, PhET, Geogebra). Subject-focused educational programmes.
12. Creation of educational software in Scratch environment.

**Recommended literature:**

SOLOMON, Gwen and Lynne SCHRUM, 2014. Web 2.0 How-to for Educators. Second. International Society for Technology in Education, 314 p. ISBN 978-1564843517.

STOBAUGH, Rebecca, 2019. Fifty Strategies to Boost Cognitive Engagement: Creating a Thinking Culture in the Classroom (50 Teaching Strategies to Support Cognitive Development). Solution Tree Press, 176 p. ISBN 978-1947604773.

LEMOV, Doug, 2015. Teach Like a Champion 2. 0: 62 Techniques That Put Students on the Path to College [online]. 2nd edition. John Wiley & Sons, Incorporated, 509 p. [cited 2021-7-10]. ISBN 9781118898628. Available from: <https://ebookcentral.proquest.com/lib/upjs-ebooks/detail.action?docID=1895720>

European Schoolnet: Transforming education in Europe [online]. [cited 2021-7-10]. Available from: <http://www.eun.org/home>

Science On Stage Europe [online]. Science on Stage Europe e.V. [cited 2021-7-10]. Available from: <https://www.science-on-stage.eu/>

**Course language:**

Slovak and partly English due to selected programs and information sources

**Notes:**

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

**Course assessment**

Total number of assessed students: 77

A	B	C	D	E	FX
68.83	15.58	9.09	0.0	6.49	0.0

**Provides:** doc. RNDr. Ľubomír Šnajder, PhD.

**Date of last modification:** 01.08.2021

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> CJP/ FFAJSLO1/08	<b>Course name:</b> English Language for Students of Slovak Studies 1
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 2.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Active participation in class and completed home assignments. Students are allowed to miss 2 classes at the most (2x90 min.). 2 tests (presumably in weeks 7 and 13) and an oral presentation in English. The final grade will be calculated as a sum of the scores obtained for the two credit tests (70%) and the presentation (30%). Assessment scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.	
<b>Learning outcomes:</b> The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can effectively use the language for a given purpose, with focus on Academic English and English for specific/professional purposes - Slovak Studies, level B2.	
<b>Brief outline of the course:</b>	
<b>Recommended literature:</b> McCarthy, M. – O'Dell, F.: Academic Vocabulary in Use. CUP, 2008 Murphy, R.: English Grammar in Use. CUP, 1994 Alexander L.G.: Longman English Grammar, Longman, 1988 Redman, S.: English Vocabulary in Use, Pre-intermediate, Intermediate. CUP, 2003 Franko, Š.: Theory of Anglophonic Literature, Štefan Franko SLOVACONTACT, 1994 Manning, A.: English for Language and Linguistics, Garnet, 2008 Gregová, R., Körtvélyessy, L.: Introduction to Linguistics, 2009 Bailey, S.: Academic Writing: A Handbook for International Students, 2011 Emmerson, P.: Email English, 2003 <a href="http://www.bbclearningenglish.com">www.bbclearningenglish.com</a>	
<b>Course language:</b> English, B2 level	
<b>Notes:</b>	

<b>Course assessment</b>					
Total number of assessed students: 71					
A	B	C	D	E	FX
39.44	19.72	19.72	5.63	5.63	9.86
<b>Provides:</b> Mgr. Viktória Mária Slovenská, Mgr. Zuzana Nad'ová					
<b>Date of last modification:</b> 10.03.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajči, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> ÚINF/BSSMI/15		<b>Course name:</b> Essentials of Informatics			
<b>Course type, scope and the method:</b> <b>Course type:</b> <b>Recommended course-load (hours):</b> <b>Per week: Per study period:</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 1					
<b>Recommended semester/trimester of the course:</b>					
<b>Course level:</b> I.					
<b>Prerequisites:</b> ÚINF/PSIN/15 and ÚINF/PAZ1b/15 and ÚINF/OSY1/21 and ÚINF/AFJ1a/15 and ÚINF/SLO1a/15					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 11					
A	B	C	D	E	FX
9.09	27.27	9.09	18.18	36.36	0.0
<b>Provides:</b>					
<b>Date of last modification:</b> 16.06.2017					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> KSSFaK/SZP1/15	<b>Course name:</b> Final Thesis Seminar 1
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 <b>Per study period:</b> 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 1	
<b>Recommended semester/trimester of the course:</b> 5.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b>	
<b>Learning outcomes:</b>	
<b>Brief outline of the course:</b>	
<b>Recommended literature:</b>	
<b>Course language:</b>	
<b>Notes:</b>	
<b>Course assessment</b> Total number of assessed students: 96	
abs	n
96.88	3.13
<b>Provides:</b> prof. PhDr. Marián Andričík, PhD.	
<b>Date of last modification:</b> 11.08.2022	
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.	

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> KSSFaK/SZP2/15	<b>Course name:</b> Final Thesis Seminar 2
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 <b>Per study period:</b> 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 1	
<b>Recommended semester/trimester of the course:</b> 6.	
<b>Course level:</b> I.	
<b>Prerequisites:</b> KSSFaK/SZP1/15	
<b>Conditions for course completion:</b>	
<b>Learning outcomes:</b>	
<b>Brief outline of the course:</b>	
<b>Recommended literature:</b>	
<b>Course language:</b>	
<b>Notes:</b>	
<b>Course assessment</b> Total number of assessed students: 91	
abs	n
95.6	4.4
<b>Provides:</b> prof. PhDr. Marián Andričík, PhD.	
<b>Date of last modification:</b> 11.08.2022	
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.	

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/LUDS/07		<b>Course name:</b> Folk Literature			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 1.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 488					
A	B	C	D	E	FX
21.72	31.15	20.49	10.66	5.33	10.66
<b>Provides:</b> PhDr. Lukáš Šutor, PhD.					
<b>Date of last modification:</b> 04.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ZEF1/15		<b>Course name:</b> Fundamentals of Experimental Phonetics 1			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 115					
A	B	C	D	E	FX
49.57	13.04	21.74	7.83	6.96	0.87
<b>Provides:</b> Ing. Eva Kiktová, PhD.					
<b>Date of last modification:</b> 15.02.2023					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ZEF2/15		<b>Course name:</b> Fundamentals of Experimental Phonetics 2			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b> KSSFaK/ZEF1/15					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 16					
A	B	C	D	E	FX
68.75	31.25	0.0	0.0	0.0	0.0
<b>Provides:</b> Ing. Eva Kiktová, PhD.					
<b>Date of last modification:</b> 15.02.2023					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ZASL/15		<b>Course name:</b> Fundamentals of Slavic Studies and Old Church Slavonic			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 3					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 229					
A	B	C	D	E	FX
44.98	30.57	14.41	7.42	2.62	0.0
<b>Provides:</b> doc. PhDr. Marianna Sedláková, PhD.					
<b>Date of last modification:</b> 15.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ZS/15		<b>Course name:</b> Fundamentals of Sociology			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 1., 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 294					
A	B	C	D	E	FX
22.45	24.83	21.43	16.67	10.2	4.42
<b>Provides:</b> doc. Mgr. Alexander Onufrák, PhD.					
<b>Date of last modification:</b> 13.04.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ZTPP/15		<b>Course name:</b> Fundamentals of Theory and Practice of Literary Translation			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 153					
A	B	C	D	E	FX
16.99	43.79	32.68	5.88	0.0	0.65
<b>Provides:</b> prof. PhDr. Marián Andričík, PhD.					
<b>Date of last modification:</b> 03.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KH/SVETD/15		<b>Course name:</b> History of European Civilisation			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 3					
<b>Recommended semester/trimester of the course:</b> 1., 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 60					
A	B	C	D	E	FX
23.33	26.67	26.67	18.33	5.0	0.0
<b>Provides:</b> doc. ThDr. Peter Borza, PhD.					
<b>Date of last modification:</b> 26.05.2021					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KH/ND/15		<b>Course name:</b> History of International Relations in the 19th and 20th Century			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 1., 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 173					
A	B	C	D	E	FX
43.93	19.65	15.03	12.72	6.94	1.73
<b>Provides:</b> prof. PaedDr. Martin Pekár, PhD., Mgr. Maroš Melichárek, PhD.					
<b>Date of last modification:</b> 14.09.2020					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KH/ SLOVD/15		<b>Course name:</b> History of Slovakia and Slovaks			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 3					
<b>Recommended semester/trimester of the course:</b> 2., 4., 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 74					
A	B	C	D	E	FX
44.59	48.65	6.76	0.0	0.0	0.0
<b>Provides:</b> Mgr. Henrich Hrehor, PhD.					
<b>Date of last modification:</b> 13.02.2019					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KPE/ INP/17		<b>Course name:</b> Inclusive Pedagogy			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 85					
A	B	C	D	E	FX
65.88	25.88	4.71	1.18	2.35	0.0
<b>Provides:</b> PaedDr. Michal Novocký, PhD.					
<b>Date of last modification:</b> 20.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ IKTP/15	<b>Course name:</b> Information and Communication Technologies
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 3., 5.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Problems solved during the semester. A final project using presentation programs, spreadsheet programs, text processors, internet resources and search tools. The ECDL certificate (all 7 modulus) is accepted as the exam with the ranking "A-výborne".	
<b>Learning outcomes:</b> To achieve and extend fundamental information and communication knowledge to the level which is acceptable in the EU region.	
<b>Brief outline of the course:</b> 1.Information sheet of the subject. ÚINF / IKTP, content of the exercise, teaching resources, evaluation of the subject, examples of projects, e-mail (message structure, attachments, addresses, signature, filters), 2.WWW (advanced information search, bookmarks - naming, organizing, exporting, importing, feeds - iGoogle) 3.Word (font, search and replace, inserting links, symbols and images, tabs, line breaks, paragraphs, pages, multi-column rate, tables) 4.Word (paragraph styles, sections, header and footer, content and index creation) 5.Word (revision, mass correspondence, creation of forms, printing the document to the printer and to PDF) 6.Word (overview of typographic rules, project creation1 - design of structure and content) 7. Excel (workbook, sheet, table, cells (cell format), formulas (aggregation functions), data filtering, graphs) 8.PowerPoint (inserting slides with different layouts, tables, graphs, multimedia objects, changing designs, creating a presentation by importing a text file), submission of PROJEKT1 (text in the style of the final thesis) by e-mail to lubomirsnajder@gmail.com (Subject: IKTP - projekt1) 9.PowerPoint (slide master, slide numbering, presentation navigation - links, buttons, image compression, line color change) 10.PowerPoint (custom animations, presentation timing, annotations, printing the presentation and its outline, running the presentation) 11 PowerPoint (project creation2 - structure and content design)	



12. Presentation PROJEKT2 (PowerPoint presentation)					
13. Presentation PROJEKT2 (PowerPoint presentation)					
<b>Recommended literature:</b> 1. Franců, M: Jak zvládnout testy ECDL. Praha : Computer Press, 2007. 160 s. ISBN 978-80-251-1485-8. 2. Jančařík, A. et al.: S počítačem do Evropy – ECDL. 2. vydanie. Praha : Computer Press, 2007. 152 s. ISBN 80-251-1844-3. 3. Kolektív autorov: Sylabus ECDL verzia 5.0. [on-line] [citované 9.2.2010]. Dostupné na internete: < <a href="http://www.ecdl.sk/buxus/docs//interne_informacie/Sylabus_V5.0/20090630ECDL-SylabusV50_SK-V01_FIN.pdf">http://www.ecdl.sk/buxus/docs//interne_informacie/Sylabus_V5.0/20090630ECDL-SylabusV50_SK-V01_FIN.pdf</a> >.					
<b>Course language:</b> Slovak or English					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 1030					
A	B	C	D	E	FX
65.44	17.86	6.89	3.59	1.65	4.56
<b>Provides:</b> Mgr. Alexander Szabari, PhD.					
<b>Date of last modification:</b> 23.11.2021					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/INSTT/07		<b>Course name:</b> Interpretation of Old Church Slavonic Texts			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 72					
A	B	C	D	E	FX
36.11	20.83	22.22	2.78	12.5	5.56
<b>Provides:</b> doc. PhDr. Marianna Sedláková, PhD.					
<b>Date of last modification:</b> 15.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/UKL/19		<b>Course name:</b> Introduction to Corpus Linguistics			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 9					
A	B	C	D	E	FX
11.11	33.33	55.56	0.0	0.0	0.0
<b>Provides:</b>					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/UVJA/15		<b>Course name:</b> Introduction to Language Studies			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 3					
<b>Recommended semester/trimester of the course:</b> 1.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 840					
A	B	C	D	E	FX
5.95	11.19	15.71	24.76	17.62	24.76
<b>Provides:</b> PhDr. Lucia Jasinská, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/UVLI/15		<b>Course name:</b> Introduction to Literary Studies			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 3					
<b>Recommended semester/trimester of the course:</b> 1.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 444					
A	B	C	D	E	FX
3.83	5.18	11.71	21.4	22.75	35.14
<b>Provides:</b> doc. PaedDr. Ivica Hajdučková, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> ÚINF/ UGR1/15		<b>Course name:</b> Introduction to computer graphics			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b> To provide the students with knowledge of graphics algorithms and basic principles of computer graphics.					
<b>Brief outline of the course:</b> Graphics hardware, input and output devices. Color models, palettes. Raster graphics algorithms for drawing 2D primitives. Filling and clipping. Curve modeling, interpolations and approximations, spline forms, Bézier curves, B-splines, surfaces. Homogenous coordinates, affine transformations, perspective and parallel projections. Visible-surface determination, illumination and shading. Rendering techniques, photorealism, textures, ray tracing, radiosity. Object representations, computer animation, virtual reality.					
<b>Recommended literature:</b> FOLEY, J. D., van DAM, A., FEINER, S., HUGHES, J.: Computer Graphics: Principles and Practice, Addison-Wesley, 1991 MORTENSON, M.E.: Geometric modeling, 2.ed., Willey, 1997					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 311					
A	B	C	D	E	FX
13.18	10.29	13.83	23.47	30.87	8.36
<b>Provides:</b> RNDr. Rastislav Krivoš-Belluš, PhD.					
<b>Date of last modification:</b> 08.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ UIB1/21	<b>Course name:</b> Introduction to information security
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 5	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> The condition for passing the course is: 1. Exercise tasks (20% of the total number of points), 2. Homeworks (30% of the total number of points), 3. Written final theoretical exam (25% of the total number of points), 4. Written final practical exam (25% of the total number of points).	
<b>Learning outcomes:</b> The result of the education is an understanding of the basic concepts of information security from the technical, legal and procedural views of point.	
<b>Brief outline of the course:</b> 1. Introduction to information security and information security model, 2. Information security management, 3. Risk and risk management, 4. Legal, normative and ethical aspects of information security, 5. Continuity management of activities, processes and security incidents handling, 6. Introduction to cryptology, 7. Access control, 8. Physical and environmental security, 9. Human resources security and social engineering, 10. End point security and malicious code, 11. Computer network security, 12. Application security, 13. Final exam.	
<b>Recommended literature:</b> 1. MARTIN, Andrew, Awais RASHID, Steve SCHNEIDER a Howard CHIVERS. CyBOK: The Cyber Security Body of Knowledge. The National Cyber Security Centre, 2021, 2. ANDRESS, Jason, Awais RASHID, Steve SCHNEIDER a Howard CHIVERS. Foundations of Information Security: A Straightforward Introduction. 1. No Starch Press, 2019. ISBN 978-1718500044, 3. PELTIER, Thomas, Awais RASHID, Steve SCHNEIDER a Howard CHIVERS. Information Security Fundamentals. 2. Boca Raton: Auerbach Publications, 2013. ISBN 978-1138436893.	
<b>Course language:</b> Slovak or English	
<b>Notes:</b>	

<b>Course assessment</b>					
Total number of assessed students: 130					
A	B	C	D	E	FX
36.92	28.46	20.0	7.69	3.08	3.85
<b>Provides:</b> doc. RNDr. JUDr. Pavol Sokol, PhD., MSc. Terézia Mézešová					
<b>Date of last modification:</b> 04.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ UNS1/15	<b>Course name:</b> Introduction to neural networks
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 5	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I., II., N	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> The condition for passing the course is the realization of a project with the application of neural networks, successful completion of two written tests in the field of neural networks, their basic types, and genetic algorithms, as well as successful completion of the written and oral part of the exam.	
<b>Learning outcomes:</b> The result of the education is an understanding of the basic principles of neural networks and genetic algorithms. The student will gain the ability to apply the acquired knowledge in intelligent data analysis and also work with a selected tool for modeling neural networks.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Basic concept arising from biology. Linear threshold units, polynomial threshold units, functions calculable by threshold units.</li> <li>2. Perceptrons. Linear separable objects, adaptation process (learning), convergence of perceptron learning rule, higher order perceptrons.</li> <li>3. Forward neural networks, hidden neurons, adaptation process (learning), backpropagation method.</li> <li>4. Recurrent neural networks. Hopfield neural networks, properties, associative memory model, energy function, learning, optimization problems (business traveler problem).</li> <li>5. Model of gradually created network. ART network, architecture, operations, initialization phase, recognition phase, search and adaptation phase. Use of the ART network.</li> <li>6. Applications of studied models in solving practical problems.</li> <li>7. Written test I.</li> <li>8. Motivation to model genetic elements. Genetic algorithm. Application of genetic algorithms.</li> <li>9. Genetic programming, root trees, Read's linear code. Basic stochastic optimization algorithms: blind algorithm and climbing algorithm. Forbidden search method.</li> <li>10. Genetic and evolutionary programming with typing, examples of use. Grammatical evolution.</li> <li>11. Special techniques of evolutionary computations. Selection mechanisms in evolutionary algorithms.</li> <li>12. Use of genetic algorithms in training neural networks. Artificial life.</li> <li>13. Written test II.</li> </ol>	

**Recommended literature:**

1. AGGARWAL, Charu C. Neural networks and deep learning: a textbook. Cham: Springer, 2018. ISBN 978-3319944623.
2. KVASNIČKA, Vladimír. Úvod do teórie neurónových sietí. [Slovenská republika]: IRIS, 1997. ISBN 80-88778-30-1.
3. KVASNIČKA, Vladimír. Evolučné algoritmy. Bratislava: Vydavateľstvo STU, 2000. Edícia vysokoškolských učebníc. ISBN 80-227-1377-5.
4. MITCHEL, Melanie. An Introduction to Genetic Algorithms. Cambridge: MIT Press, 2002. ISBN 0-262-63185-7.
5. SINČÁK, Peter, ANDREJKOVÁ, G. Úvod do neurónových sietí, I. diel, Košice: ELFA, 1996. ISBN 808878638X

**Course language:**

Slovak or English

**Notes:**

Content prerequisites:

Basics of programming in Python, or another alternative programming language suitable for data analysis

**Course assessment**

Total number of assessed students: 472

A	B	C	D	E	FX
17.16	17.58	22.25	17.8	21.19	4.03

**Provides:** doc. RNDr. Ľubomír Antoni, PhD., RNDr. Šimon Horvát, PhD.

**Date of last modification:** 23.11.2021

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> ÚINF/MZI/21		<b>Course name:</b> Introduction to study of informatics			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 1.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b> Understanding of basic mathematical notions					
<b>Learning outcomes:</b> Understanding of basic mathematical notions					
<b>Brief outline of the course:</b> 1. Mathematical text 2. Connections and quantifiers 3. Classes and sets 4. Other operations operácie 5. Relations 6. Relational algebra 7. Orderings 8. Equivalences 9. Functions 10. Cardinalities 11. Infinities 12. Cardinal arithmetics					
<b>Recommended literature:</b> <a href="https://ics.upjs.sk/~krajci/skola/vyucba/jesen/predmety/MZI.html">https://ics.upjs.sk/~krajci/skola/vyucba/jesen/predmety/MZI.html</a>					
<b>Course language:</b> Slovak					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 296					
A	B	C	D	E	FX
48.65	21.28	8.78	2.7	1.01	17.57
<b>Provides:</b> prof. RNDr. Stanislav Krajčí, PhD.					

<b>Date of last modification:</b> 23.11.2021
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ ZZvPaEM1/15		<b>Course name:</b> Journalistic Genres in Print and Electronic Media I			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 2., 4., 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 562					
A	B	C	D	E	FX
19.4	13.7	21.53	17.97	19.4	8.01
<b>Provides:</b> PhDr. Marián Gladiš, PhD.					
<b>Date of last modification:</b> 11.03.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ ZZvPaEM2/15		<b>Course name:</b> Journalistic Genres in Print and Electronic Media II			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 1., 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b> KSSFaK/ZZvPaEM1/15					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 433					
A	B	C	D	E	FX
28.41	29.33	20.55	12.24	9.01	0.46
<b>Provides:</b> Mgr. Peter Getlík, PhD.					
<b>Date of last modification:</b> 11.03.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> KKF/ LATm/07	<b>Course name:</b> Latin Language for Students of Philology
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Written test at the end of semester, required minimum is 60%. Part of the exercise can take place in a distance form. In the case of the distance form of teaching, in addition to the final test, the condition for passing the course is also the regular and timely submission of the assignments.	
<b>Learning outcomes:</b> Development of linguistic skills (comparative study of grammatical phenomena of analytic and synthetic type of language). Reading and comprehension of simple Latin texts, sentence analysis, understanding of interlingual relations between Latin and English language - similarities and differences.	
<b>Brief outline of the course:</b> Pronunciation of the Latin language, basic Latin grammar terminology applicable also to study of other languages. - Declension of nouns: Latin nouns, adjectives and pronouns -Declension and comparison – comparing with English / German declension - Declension of verbs: Latin verbs, conjugation, basic tenses – present indicative, imperfect indicative,- verb "esse"	
<b>Recommended literature:</b> Balegová, Jana: Lingua Latina - cursus communis. Košice : Univerzita Pavla Jozefa Šafárika v Košiciach, 2019. [elektronický zdroj]; Balegová, Jana – Katreničová, Anabela: Lingua Latina - cvičebnica pre filológov. Košice : Univerzita Pavla Jozefa Šafárika v Košiciach, 2019. [elektronický zdroj]; Špaňár, J., Horecký, J.: Latinská gramatika. Bratislava 1993; Additional literature: Barandovská-Frank, V.: Latina jako mezinárodní jazyk. Praha 1995	
<b>Course language:</b>	
<b>Notes:</b>	

<b>Course assessment</b>					
Total number of assessed students: 18					
A	B	C	D	E	FX
0.0	11.11	16.67	22.22	22.22	27.78
<b>Provides:</b> prof. PhDr. František Šimon, CSc., doc. Mgr. Jana Balegová, PhD., Mgr. Mgr. Anabela Katreničová, Ph.D., doc. Mgr. Erika Brodňanská, PhD.					
<b>Date of last modification:</b> 02.12.2021					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ EXKUbm/12		<b>Course name:</b> Literary Excursion 1			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: Per study period:</b> 3d <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 236					
A	B	C	D	E	FX
81.36	8.47	0.85	0.42	0.0	8.9
<b>Provides:</b>					
<b>Date of last modification:</b> 03.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/LDM/07		<b>Course name:</b> Literature for Children and Young Adults			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 381					
A	B	C	D	E	FX
43.83	27.82	17.59	6.82	1.84	2.1
<b>Provides:</b> doc. Mgr. Markéta Andričíková, PhD.					
<b>Date of last modification:</b> 25.02.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/LFT/07		<b>Course name:</b> Literature in Film and Television			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 313					
A	B	C	D	E	FX
23.0	38.34	28.75	8.63	1.28	0.0
<b>Provides:</b> prof. Mgr. Ján Sabol, PhD., ArtD.					
<b>Date of last modification:</b> 11.03.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚMV/ MTIa/21	<b>Course name:</b> Mathematics I for informaticians
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 6	
<b>Recommended semester/trimester of the course:</b> 1.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Two tests, completion of individual and group homework (including project) during the semester. Assessment is given on the basis of semestral evaluation and examination test. The ability to solve selected types of problems (without context / with context) also in combination with mathematical software is evaluated. Furthermore, the understanding of concepts and relationships between them (conceptual questions / tasks) is taken into account. A total of 100 points can be obtained (60 points during the semester and 40 points for the exam test). In addition, it is possible to obtain bonus points for various activities (solving bonus tasks, active approach to the subject during the semester ...).	
<b>Learning outcomes:</b> To obtain basic mathematical knowledge about the divisibility of integers, congruences, number systems, groups, vectors, matrices and determinants, as well as the functions of one real variable. To get acquainted with the applications (including the information technologies) of some fundamental mathematical concepts. To learn to work with mathematical software and together with the acquired knowledge to use it in solving various types of problems.	
<b>Brief outline of the course:</b> Introduction to the teaching system, technologies and mathematical software (1 week). Integers and divisibility, prime numbers and congruences, applications of congruences and residue classes - basic properties of integer divisibility, canonical decomposition of a number, greatest common divisor and least common multiple of numbers, Euclidean algorithm, solution of (linear) Diophantine equations and (linear) congruences, addition and subtraction of residue classes (3 weeks). Number systems and conversions between them - positional number systems and conversions between them, arithmetic operations in different number systems (1 week). Vectors, matrices, determinants, their applications and introduction to analytical geometry - vector and matrix operations, scalar and vector product, angles of vectors, calculation of matrix determinants (from definition, Saruss rule, row/column expansion), inverse matrix determination (using determinant and adjoint matrix, Gaussian-Jordan method), solution of linear systems equations (Gaussian elimination method, Cramer's rule, substitution/addition method), eigenvalues/	

<p>eigenvectors of a matrix, analytical expressions of a line/plane/circle/sphere - determination of their mutual position and angles (3 weeks).</p> <p>Introduction to (elementary) functions - domains and graphs of functions, basic properties of functions (boundedness, monotonicity, parity, periodicity), operations with functions, inverse function, basic properties of elementary functions (polynomial, power, exponential, logarithmic, trigonometric, cyclometric) (2 weeks).</p> <p>Groups, fields - binary operation, group definition, Cayley's table, Latin squares, group isomorphism, subgroup, cyclic (sub) group, group order, element order, Cayley's theorem, Lagrange's theorem, field definition (1 week).</p>																	
<p><b>Recommended literature:</b></p> <p>Hallet D. H. (2014). Applied Calculus. John Wiley &amp; Sons.</p> <p>Koshy T. (2007). Elementary Number Theory with Applications. Elsevier.</p> <p>Judson T. W., Austin S. F. (2019). Abstract Algebra: Theory and Applications. GNU Free Documentation License.</p> <p>Lay D. C. (2012). Linear Algebra And Its Applications. Boston: Addison-Wesley.</p> <p>Studenovská D., Madaras T. (2006). Matematika pre nematematické odbory. UPJŠ.</p> <p>Studenovská D., Madaras T., Mockovciak S. (2006). Zbierka úloh z matematiky pre nematematické odbory. UPJŠ.</p> <p>Zimmermann P. et al. (2018). Computational Mathematics with SageMath. Springer.</p>																	
<p><b>Course language:</b></p> <p>Slovak</p>																	
<p><b>Notes:</b></p>																	
<p><b>Course assessment</b></p> <p>Total number of assessed students: 232</p> <table border="1"> <thead> <tr> <th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> </thead> <tbody> <tr> <td>2.16</td><td>8.62</td><td>9.91</td><td>21.55</td><td>45.26</td><td>12.5</td></tr> </tbody> </table>						A	B	C	D	E	FX	2.16	8.62	9.91	21.55	45.26	12.5
A	B	C	D	E	FX												
2.16	8.62	9.91	21.55	45.26	12.5												
<p><b>Provides:</b> RNDr. Andrej Gajdoš, PhD.</p>																	
<p><b>Date of last modification:</b> 30.04.2022</p>																	
<p><b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.</p>																	

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚMV/ MTIb/21	<b>Course name:</b> Mathematics II for informaticians
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 6	
<b>Recommended semester/trimester of the course:</b> 2.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Two tests, completion of individual and group homework during the semester. Assessment is given on the basis of semestral evaluation and examination test. The ability to solve selected types of problems (without context / with context ) also in combination with mathematical software is evaluated. Furthermore, the understanding of concepts and relationships between them (conceptual questions / tasks) is taken into account. A total of 100 points can be obtained (60 points during the semester and 40 points for the exam test). In addition, it is possible to obtain bonus points for various activities (solving bonus tasks, active approach to the subject during the semester ...).	
<b>Learning outcomes:</b> Gain basic knowledge of differential and integral calculus of functions of one real variable. Also get acquainted with numerical sequences, infinite numerical series and with the functions of several (mostly two) variables.	
<b>Brief outline of the course:</b> Differential calculus of functions of one real variable - limits and continuity of functions, derivatives of functions, applications of derivatives of functions (4 weeks). Numerical sequences and infinite numerical series - limits of numerical sequences, geometric series, harmonic series, convergence criteria for infinite series with non-negative terms, infinite series with alternating signs (1 week). Integral calculus of functions of one real variable - primitive function, substitution method, per partes, applications of a definite integral, improper integrals (3 weeks). Functions of several (two) variables - domains and visualization, function limits, partial derivatives, determination of (local) extremes of functions (3 weeks).	
<b>Recommended literature:</b> Boelkins M., Austin D., Schlicker S. (2018). Active Calculus. 978-1085940856. Hallet D. H. et al. (2012). Calculus: Single & Multivariable Variable. Wiley. Hallet D. H. (2014). Applied Calculus. John Wiley & Sons. Hallet D. H. et al. (2017). Calculus: Single Variable. Wiley. Hartman G. et al. (2018). APEX Calculus. 978-1514225158. Schlicker S., Austin D., Boelkins M. (2018). Active Calculus - Multivariable. 978-1548655525.	

D. Studenovská, T. Madaras, S. Mockovčiak: Zbierka úloh z matematiky pre nematematické odbory, UPJŠ 2006					
D. Studenovská, T. Madaras: Matematika pre nematematické odbory, UPJŠ 2006					
<b>Course language:</b> Slovak					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 150					
A	B	C	D	E	FX
4.0	10.67	10.0	25.33	44.0	6.0
<b>Provides:</b> RNDr. Andrej Gajdoš, PhD.					
<b>Date of last modification:</b> 30.04.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/MLA/15		<b>Course name:</b> Methods of Linguistic Analysis			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 2.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 28					
A	B	C	D	E	FX
42.86	28.57	17.86	10.71	0.0	0.0
<b>Provides:</b> doc. PhDr. Marianna Sedláková, PhD.					
<b>Date of last modification:</b> 15.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KPE/MMKV/17		<b>Course name:</b> Multiculturalism and Multicultural Education			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 191					
A	B	C	D	E	FX
41.88	42.93	13.61	1.05	0.52	0.0
<b>Provides:</b> PaedDr. Michal Novocký, PhD.					
<b>Date of last modification:</b> 20.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SSL/15		<b>Course name:</b> Old Slovak Literature			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 1.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 294					
A	B	C	D	E	FX
10.2	15.99	31.97	16.33	17.01	8.5
<b>Provides:</b> PhDr. Lukáš Šutor, PhD.					
<b>Date of last modification:</b> 04.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ OSY1/21	<b>Course name:</b> Operating systems
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 4	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Oral exam	
<b>Learning outcomes:</b> Student obtains base knowledge about the properties and internal processes of operating systems, their structure and concept. By completing the course, the student will gain a comprehensive picture of the life cycle of processes, their planning and communication between them. He will also gets a knowledge of physical, logical and virtual memory management and understands synchronization as well as phenomena such as deadlocks or starvation. The acquired knowledge will enable the student to understand the behavior of the operating system, which leads to gaining the ability to intervene with running operating system, eventually optimize it.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. History, development, user interface and structure of operating systems.</li> <li>2. Kernel of the operating system and system calls, implementation.</li> <li>3. Process - definition, structure, life cycle, implementation.</li> <li>4. Process - planning algorithms, multiprocessing.</li> <li>5. Process - inter-process communication.</li> <li>6. Thread - definition, structure, life cycle, implementation.</li> <li>7. Synchronization of processes and system resources.</li> <li>8. Deadlock and starvation - prevention, detection, recovery.</li> <li>9. Memory - definition, types of memories, usage, volatility, DMA.</li> <li>10. Memory - allocation strategies, paging, fragmentation.</li> <li>11. Memory - MMU, TLB, MPU, segmentation.</li> <li>12. Memory - virtual memory management strategies.</li> <li>13. File system - definition, structure, implementation.</li> <li>14. File system - file, directory, attributes, access control, ACL.</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. SILBERSCHATZ, Abraham, Peter B. GALVIN a Greg GAGNE. Operating System Concepts. 10th Revised edition. New York, United States: John Wiley, 2021. ISBN 9781119800361.</li> <li>2. TANENBAUM, Andrew, Herbert BOS. Modern Operating Systems. 4th edition. London, UK: Pearson Education Limited, 2014. ISBN 9781292061429.</li> </ol>	

3. The Linux Kernel documentation. Linux Kernel Library [online]. Dostupné z: <https://www.kernel.org/doc/html/latest/>
4. DOWNEY, Allen B. The Little Book of Semaphores [online]. Version 2.2.1. Green Tea Press, 2016. Dostupné z: <https://greenteapress.com/semaphores/LittleBookOfSemaphores.pdf>

**Course language:**

Slovak or English

**Notes:****Course assessment**

Total number of assessed students: 185

A	B	C	D	E	FX
23.24	22.16	19.46	23.78	9.73	1.62

**Provides:** RNDr. PhDr. Peter Pisarčík

**Date of last modification:** 08.10.2021

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ORT/07		<b>Course name:</b> Orthography and Orthoepey			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 2.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 937					
A	B	C	D	E	FX
8.11	9.93	12.49	13.23	26.79	29.46
<b>Provides:</b> Mgr. Lena Ivančová, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KPE/ Pg/15		<b>Course name:</b> Pedagogy			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 961					
A	B	C	D	E	FX
23.1	29.24	23.41	13.84	8.84	1.56
<b>Provides:</b> PaedDr. Michal Novocký, PhD.					
<b>Date of last modification:</b> 20.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/PLM/07		<b>Course name:</b> Pedophonetic and Logopedic Minimum			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 131					
A	B	C	D	E	FX
26.72	28.24	14.5	15.27	8.4	6.87
<b>Provides:</b> PhDr. Iveta Bónová, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/FONT/15		<b>Course name:</b> Phonetics			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 1.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 359					
A	B	C	D	E	FX
3.9	10.86	21.17	24.23	19.22	20.61
<b>Provides:</b> PhDr. Iveta Bónová, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/FONF/15		<b>Course name:</b> Phonology			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 2.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 303					
A	B	C	D	E	FX
8.25	14.52	18.48	23.43	19.47	15.84
<b>Provides:</b> PhDr. Iveta Bónová, PhD.					
<b>Date of last modification:</b> 23.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> KPPaPZ/PP/15	<b>Course name:</b> Positive Psychology
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 4., 6.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Assessment is based on interim evaluation. The subject will be taught in both present and distance format. Up-to-date information concerning the subject for the given academic year can be found on the electronic board of the subject in the Academic information system of the UPJŠ.	
<b>Learning outcomes:</b> Students will acquire basic knowledge concerning the reasons for founding Positive psychology, its main theory, current research, as well as application of Positive psychology as a new and rapidly developing field within psychology. Students will also gain experience in applying critical thinking to the challenges and issues that Positive psychology brings and raises in the context of the individual in contemporary society. Emphasis is placed on the ability to critically evaluate current topics of positive psychology.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Different perspectives on well-being and happiness in psychology</li> <li>2. Main theoretical approaches to positive psychology</li> <li>3. Positive emotions and positivity</li> <li>4. Meaningfulness</li> <li>5. Positive interpersonal relations</li> <li>6. Post-traumatic growth</li> <li>7. Hope and optimism</li> <li>8. Gratitude</li> <li>9. Spirituality as a personality dimension</li> <li>10. Wisdom</li> <li>11. Positive institutions</li> <li>12. New themes and topics in PP</li> </ol>	
<b>Recommended literature:</b> Brewer, M. B, Hwestone, M: Emotion and Motivation, Blackwell, 2004 Deci, E., Ryan R. M., Handbook of Self – Determination Research, Rochester, 2002 Křivohlavý, J.: Pozitivní psychologie. Praha, Portál, 2003 Křivohlavý, J.: Psychologie vděčnosti a nevďčnosti. Praha, Grada, 2007 Křivohlavý, J.: Psychologie moudrosti a dobrého života, Praha, Grada, 2012	

Křivohlavý, J.: Psychologie pocitu štěstí, Grada, 2013 McAdams, D. P., The Person, New York, 2002 Seligman, M. E. P., & Csikszentmihalyi, M. (Eds.). (2000). Positive psychology [Special issue] American Psychologist, 55(1). Říčan, P.: Psychologie náboženství a spirituality, Praha, Portál, 2007 Slezáčková, A.: Průvodce pozitivní psychologií, Praha, Grada, 2012					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 408					
A	B	C	D	E	FX
98.28	1.23	0.25	0.0	0.25	0.0
<b>Provides:</b> Mgr. Jozef Benka, PhD.					
<b>Date of last modification:</b> 24.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ PRP2/15	<b>Course name:</b> Principles of computers
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 4	
<b>Recommended semester/trimester of the course:</b> 2.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Graded activities: assignments, mid semester exam, final exam	
<b>Learning outcomes:</b> <ul style="list-style-type: none"> <li>- Know brief history of computer, classification and construction principles of computers of von Neumann type.</li> <li>- Understand relation between real numbers, integers and their binary representation as well as be able to perform basic arithmetic and logic operations over binary represented numbers.</li> <li>- Learn basics about logic gates, combination and sequence circuits and their structure. Understand principles of how basic circuits realize arithmetic-logic unit and other parts of computers e.g. memory.</li> <li>- Know principles of communication of processor and other devices via interruptions and direct memory access.</li> <li>- Get idea of device drivers, device controllers and their functionality.</li> </ul>	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Computers of von Neumann type, brief history of computer science.</li> <li>2. Encoding of integers, real numbers and arithmetic operations. Encoding of symbols.</li> <li>3. Logic functions and their realization and optimisation.</li> <li>4. Combination circuits. Realization of basic functional and control elements on computer circuits.</li> <li>5. Arithmetic logic unit and its realization.</li> <li>6. Sequential circuits, memory cell, organization of memory matrix, types of memories.</li> <li>7. Machine cycle.</li> <li>8. Types of instruction and instructions sets.</li> <li>9. Instruction cycle and processing of instructions.</li> <li>10. Memory and memory subsystem.</li> <li>11. Communication between processor and peripheral devices. Input output devices, mechanism of interruption in computer, direct memory access. Functionality of device drivers. Device controllers and functionality.</li> <li>12. Portability of programs. External and peripheral memories their principles and their use. Graphical adapters, monitors, printers, digital scanners.</li> </ol>	
<b>Recommended literature:</b>	

1. STALLINGS, William. Computer Organization and Architecture. Prentice Hall, 2002. ISBN 978-0-13-410161-3.
2. DEMBOWSKI, Klaus. Mistrovství v hardware. Computer Press, 2009. ISBN 978-80-251-2310-2.
3. MINASI, Mark. Velký průvodce hardwarem. Grada, 2002. ISBN 978-80-251-2310-2.

**Course language:**

Slovak or English

**Notes:**

**Course assessment**

Total number of assessed students: 301

A	B	C	D	E	FX
28.57	16.28	15.61	12.62	22.26	4.65

**Provides:** RNDr. Juraj Šebej, PhD.

**Date of last modification:** 23.11.2021

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ PBS/15	<b>Course name:</b> Pro-seminar to bachelor thesis
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 <b>Per study period:</b> 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 1	
<b>Recommended semester/trimester of the course:</b> 4.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Creating a website about a bachelor's thesis. Selection of bachelor thesis topic. Presentation of the bachelor's thesis assignment and its objectives. Preparation of an essay in the extent of 1 page on the motivation to select a bachelor's thesis. Creation of the bachelor's thesis assignment and its insertion into the AIS by the thesis supervisor.	
<b>Learning outcomes:</b> Basic knowledge of the principles of creation and structure of bachelor's theses. Criteria and requirements for selecting an appropriate bachelor thesis topic. Knowledge about the structure of the bachelor's thesis assignment.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Principles in creating a final thesis.</li> <li>2. The presentations of bachelor thesis topics by potential supervisors.</li> <li>3. The presentations of bachelor thesis topics by potential supervisors.</li> <li>4. The presentations of bachelor thesis topics by potential supervisors.</li> <li>5. Bachelor thesis and its objectives.</li> <li>6. Assignment of bachelor thesis.</li> <li>7. Basic types of bachelor theses.</li> <li>8. Structure of different types of bachelor theses.</li> <li>9. Requirements for final bachelor theses.</li> <li>10. External company final theses.</li> <li>11. Presentation of selected topics of final theses.</li> <li>12. Presentation of selected topics of final theses.</li> <li>13. Presentation of selected topics of final theses.</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. STN 01 6910. Rules of writing and editing documents. 2011.</li> <li>2. STN ISO 2145. Documentation. Numbering of sections and subsections of written documents. 1997.</li> <li>3. STN ISO 690. Information and documentation. Instructions for creating bibliographic references to information sources and their citation. 2012</li> <li>4. KATUŠČÁK, Daniel. How to write final and qualification theses. Enigma, 2013</li> </ol>	

5. Scientific literature related to the topic of the final thesis according to the recommendation of the thesis supervisor.

**Course language:**

Slovak or English

**Notes:**

**Course assessment**

Total number of assessed students: 344

abs	n
94.77	5.23

**Provides:** doc. RNDr. Ľubomír Antoni, PhD.

**Date of last modification:** 08.01.2022

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/SPP1a/15	<b>Course name:</b> Programming environments in schools I
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 4	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I.	
<b>Prerequisites:</b> ÚINF/PAZ1a/15	
<b>Conditions for course completion:</b> At least 50 % of the marks in the intermediate assessment A minimum of 50 % marks in the mid-term and end-of-semester practical tests	
<b>Learning outcomes:</b> Ability to implement more complex algorithms in the Python programming language. Ability to design and program educational software in the Python programming language. Formulate and solve school computer science problems.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Introduction to Python, basic features of Python, syntax.</li> <li>2. Simple data types (number, logical type), structured types (string, list, dictionary, set, tuple).</li> <li>3. Control structures (loops, conditional statements, exception management).</li> <li>4. Function definition (parameters, return value), function documentation.</li> <li>5. Import and creation of modules.</li> <li>6. Error types and error condition handling. Exception handling and raising.</li> <li>7. Saving data to a file and reading data from a file. Data serializing. Open data and its analysis.</li> <li>8. Testing the correctness of algorithms (doctest, unittest), test data.</li> <li>9. Object-oriented programming. Design and implementation of custom classes.</li> <li>10. Creation of graphical interface of programs.</li> <li>11. Design criteria, design and programming of educational software.</li> <li>12. Solving more complex algorithmic problems from real life or school practice using the object-oriented approach and the resources of the Python programming language.</li> </ol>	
<b>Recommended literature:</b> PILGRIM, Mark. Ponořme se do Python(u) 3: Dive into Python 3. 1. Praha: CZ.NIC, c2010, 430 s. CZ.NIC. ISBN 978-80-904248-2-1. Dostupné také z: <a href="http://knihy.nic.cz/files/nic/edice/mark_pilgrim_dip3_ver3.pdf">http://knihy.nic.cz/files/nic/edice/mark_pilgrim_dip3_ver3.pdf</a> SHIPMAN, John W. Tkinter 8.5 reference: a GUI for Python. Socorro, NM 87801: New Mexico Tech Computer Center, 2013. Dostupné také z: <a href="https://anzeljg.github.io/rin2/book2/2405/docs/tkinter/tkinter.pdf">https://anzeljg.github.io/rin2/book2/2405/docs/tkinter/tkinter.pdf</a>	



<p>GUNIŠ, Ján, Viera MICHALIČKOVÁ, Martin CÁPAY a Ľubomír ŠNAJDER.  Riešenie problémov a programovanie. Bratislava: Centrum vedecko-technických informácií SR, 2020. ISBN 978-80-89965-62-5.</p> <p>HETLAND, Magnus Lie. Beginning Python: from novice to professional. New York: Distributed to the book trade worldwide by Springer-Verlag, c2005. ISBN 1-59059-519-X.</p> <p>KRNÁČ, Jozef, Miloslava SUDOLSKÁ a Ľudovít TRAJTEL. Ďalšie vzdelávanie učiteľov základných škôl a stredných škôl v predmete informatika: Učiteľ s kompetenciami programátora. Bratislava: Štátny pedagogický ústav Bratislava, 2010. ISBN 978-80-8118-083-5.</p>					
<p><b>Course language:</b>  Slovak language, knowledge of English is only required to read Python documentation.</p>					
<p><b>Notes:</b></p>					
<p><b>Course assessment</b>  Total number of assessed students: 28</p>					
A	B	C	D	E	FX
17.86	21.43	39.29	7.14	10.71	3.57
<p><b>Provides:</b> PaedDr. Ján Guniš, PhD.</p>					
<p><b>Date of last modification:</b> 31.08.2021</p>					
<p><b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.</p>					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ SPP1b/15	<b>Course name:</b> Programming environments in schools II
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 4	
<b>Recommended semester/trimester of the course:</b> 6.	
<b>Course level:</b> I., N	
<b>Prerequisites:</b> ÚINF/SPP1a/15	
<b>Conditions for course completion:</b> Conditions for ongoing evaluation: 1. Educational software or game programmed in the Scratch environment, 2. A programming etude created for learning of programming in the MIT App Inventor environment. 3. Educational or assistive software programmed in the MIT App Inventor environment. 4. A programmed project using the BBC micro: bit kit. Conditions for successful completion of the course: Obtaining at least 50% of points for ongoing assignments.	
<b>Learning outcomes:</b> After completing this course, students are able to: a) get an overview of educational programming environments, b) acquire programming skills in selected educational programming environments, c) develop the ability to design and program educational software for devices using their sensors and actuators.	
<b>Brief outline of the course:</b> 1. Teaching algorithmization and programming in primary and secondary school - objectives, content, textbooks and methodological materials. Algorithmic computer games. 2. Programming in the Scratch environment. 3. Programming in the Scratch environment. 4. Programming in the Scratch environment. 5. Programming of mobile devices in the MIT App Inventor environment. 6. Programming of mobile devices in the MIT App Inventor environment. 7. Programming of mobile devices in the MIT App Inventor environment. 8. Programming of mobile devices in the MIT App Inventor environment. 9. Programming of mobile devices in the MIT App Inventor environment. 10. Programming BBC micro: bit kits in MS MakeCode environment. 11. Programming BBC micro: bit kits in MS MakeCode environment. 12. Overview of educational programming initiatives and development environments.	
<b>Recommended literature:</b>	

BELL, Charles A., 2017. Micropython for the internet of things: a beginner's guide to programming with Python on microcontrollers. New York, NY: Springer Science+Business Media. ISBN 9781484231227.

GUTSCHANK, Jörg et al., 2019. Coding in STEM Education [online]. Berlin: Science on Stage Deutschland e.V., 76 p. [cited 2021-7-10]. ISBN 978-3-942524-58-2. Available from: [https://www.science-on-stage.eu/sites/default/files/material/coding\\_in\\_stem\\_education\\_en\\_2nd\\_edition.pdf](https://www.science-on-stage.eu/sites/default/files/material/coding_in_stem_education_en_2nd_edition.pdf)

ŠNAJDER, Ľubomír, Gabriela LOVÁSZOVÁ, Viera MICHALIČKOVÁ and Ján GUNIŠ, 2020. Programovanie mobilných zariadení [online]. Bratislava: Centrum vedecko-technických informácií SR, 300 p. [cited 2020-11-30]. ISBN 978-80-89965-63-2. Available from: <https://registracia.itakademia.sk/media/themes/nip-pmz.pdf>

WOLBER, David, 2014. App Inventor: Vytvořte si vlastní aplikaci pro Android. Brno: Computer Press. ISBN 978-80-251-4195-3.

LOVÁSZOVÁ, Gabriela, Jana GALBAVÁ, Viera PALMÁROVÁ and Monika TOMCSÁNYIOVÁ, 2010. Ďalšie vzdelávanie učiteľov základných škôl a stredných škôl v predmete informatika: Malé programovacie jazyky. Bratislava: Štátny pedagogický ústav. ISBN 978-80-8118-066-8.

CODE.ORG. Learn today, build a brighter tomorrow.

Code.org [online]. [cited 2021-7-13]. Available from: <https://code.org/>

THE LIFELONG KINDERGARTEN GROUP AT MIT MEDIA LAB. Scratch - Imagine, Program, Share [online]. [cited 2021-7-13]. Available from: <https://scratch.mit.edu/>

MASSACHUSETTS INSTITUTE OF TECHNOLOGY. MIT App Inventor Explore MIT App Inventor [online]. [cited 2021-7-13]. Available from: <http://appinventor.mit.edu/>

MICRO:BIT EDUCATIONAL FOUNDATION. BBC micro:bit [online]. [cited 2021-7-13]. Available from: <https://microbit.org/>

SPY O.Z. Učíme s Hardvérom [online]. [cited 2021-7-13]. Available from: <https://www.ucimeshardverom.sk/>

**Course language:**

Slovak or English

**Notes:**

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

**Course assessment**

Total number of assessed students: 20

A	B	C	D	E	FX
25.0	20.0	15.0	20.0	5.0	15.0

**Provides:** doc. RNDr. Ľubomír Šnajder, PhD.

**Date of last modification:** 01.08.2021

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/PRS/15	<b>Course name:</b> Programming of robotic kits
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 3 <b>Per study period:</b> 42 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 3	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Evaluation of independent work with kits and in educational programming environments in solving robotic mini-projects. Creation of own task and presentation of the solution with methodological recommendations.	
<b>Learning outcomes:</b> 1. To acquire an overview of robotic sets and robotic programming environments. 2. To acquire skills in constructing and programming robots in selected robotic programming environments.	
<b>Brief outline of the course:</b> 1. Robotic kit (Lego Mindstorms EV3 and Spike Prime) - parts, motors, sensors, basics of building mechanical parts of models 2. Programming of robotic models in Lego Education Mindstorms EV3 and Classroom, Lego Education Spike - branching commands, cycles, blocks, events, parallel processes, working with sensors, datalogging. Creating mini-projects (eg explorer, rescuer, parking, Super Cleanup, Life Hacks, Rain or shine?) 3. Programming of robotic models in the block programming environment EV3 and Spike - creation of mini-projects 4. Robotic competitions, ideas for more demanding projects. 5. Creation and presentation of the final project - a programmed robotic model (eg going through a maze, sports, rescuer) with documentation.	
<b>Recommended literature:</b> 1. BUMGARDNER, J. (2007) The Origins of Mindstorms. Wired, 2007. <a href="http://www.wired.com/geekdad/2007/03/the_origins_of_/">http://www.wired.com/geekdad/2007/03/the_origins_of_/</a> 2. Carnegie Mellon. Robotics Academy. <a href="http://www.education.rec.ri.cmu.edu/">http://www.education.rec.ri.cmu.edu/</a> 3. Pavel Petrovič, <a href="http://robotika.sk/events/18Skolenia/priruckaEV3.pdf">http://robotika.sk/events/18Skolenia/priruckaEV3.pdf</a> 4. Get ready with Lessons: <a href="https://education.lego.com/en-us/lesson">https://education.lego.com/en-us/lesson</a> 5. LEGO® Education Professional Development, <a href="https://education.lego.com/en-us/professional-development#about">https://education.lego.com/en-us/professional-development#about</a> 6. SCRATCH Programming Lessons, <a href="https://primelessons.org/en/Lessons.html">https://primelessons.org/en/Lessons.html</a> ,	

<b>Course language:</b> Slovak					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 52					
A	B	C	D	E	FX
51.92	25.0	11.54	1.92	0.0	9.62
<b>Provides:</b> Ing. Angelika Hanesz					
<b>Date of last modification:</b> 23.11.2021					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/PSW1/06	<b>Course name:</b> Programming of web-pages
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 4.	
<b>Course level:</b> I.	
<b>Prerequisites:</b> (ÚINF/DBS1a/15 or ÚINF/DBS/15) and (ÚINF/PAZ1a/15 or ÚINF/PRG1/15)	
<b>Conditions for course completion:</b> 50% of the marks from continuous assignments	
<b>Learning outcomes:</b> An overview of modern technologies for creating dynamic websites. Describing and applying the basic principles of creating dynamic web pages. Utilize client-side (JavaScript) and server-side (PHP) web programming technologies. Using relational databases (MySQL) to create application web pages. Know the security risks of dynamic websites and be able to eliminate them.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. JavaScript - introduction to JavaScript programming.</li> <li>2. JavaScript - communication with the user, validation of data in forms using JavaScript.</li> <li>3. JavaScript - introduction to using the jQuery library.</li> <li>4. PHP - introduction to PHP programming.</li> <li>5. PHP - data and control structures of the PHP language.</li> <li>6. PHP - communication with the user, validation of data in forms using PHP.</li> <li>7. PHP - object oriented problem solving in PHP language. File manipulation.</li> <li>8. PHP - User authentication (cookies, session).</li> <li>9. MySQL - introduction to working with MySQL database system.</li> <li>10. MySQL - Simple applications using the database for data storage and access.</li> <li>11. Web application security - an introduction to web application security.</li> <li>12. Web application security - the most common web application security problems and how to eliminate them.</li> </ol>	
<b>Recommended literature:</b> BLUM, Richard. PHP, MySQL& JavaScript: All-in-One. Hoboken, New Jersey: John Wiley, 2018. ISBN 978-1-119-46838-7. KROMANN, Frank M. Beginning PHP and MySQL: From Novice to Professional. 5. CA, USA: Apress, 2018. ISBN 978-1-4302-6043-1. HUSEBY, Sverre H. Zraniteľný kód. Brno: Computer Press, 2006, 207 s. ISBN 80-251-1180-6. SNYDER, Chris, Thomas MYER a Michael SOUTHWELL. Pro PHP Security: From Application Security Principles to the Implementation of XSS Defenses. 2. United States of America: Apress, 2010. ISBN 978-1-4302-3318-3.	

<b>Course language:</b> Slovak language, knowledge of English language is only necessary for reading documentation.			
<b>Notes:</b> Content prerequisite: WBdi/15 Web and user interface design			
<b>Course assessment</b> Total number of assessed students: 24			
abs	n	neabs	z
66.67	33.33	0.0	0.0
<b>Provides:</b> PaedDr. Ján Guniš, PhD.			
<b>Date of last modification:</b> 08.01.2022			
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.			

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ PAZ1a/15	<b>Course name:</b> Programming, algorithms, and complexity
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 3 / 4 <b>Per study period:</b> 42 / 56 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 8	
<b>Recommended semester/trimester of the course:</b> 1.	
<b>Course level:</b> I., II.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Graded activities during semester: assignments, small exams, midterm, final project. Final examination: practical finalterm focused on a complex task. Rules to pass the subject: Pass the minimal limit of points for category of homeworks (assignments, final project) and tests (small exams, midterm). Get at least 42% from the finalterm and pass the defined limit of total points for all graded activities.	
<b>Learning outcomes:</b> Get an ability to implement basic Java programs and obtain essential knowledge related to object-oriented programming.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Introduction to Java and JPAZ2 framework, first Eclipse project, interactive communication with objects using turtle graphics, repeating code in loops, notion of class, object, and method.</li> <li>2. For-loops, local variables, variable types, arithmetic expressions, random numbers, random walk, conditions.</li> <li>3. While-loop, returning a value from a method, reference and reference variables, debugging.</li> <li>4. Primitive and reference types, chars, String objects (including basic algorithms), mouse events, instance variables.</li> <li>5. Array of primitive values and array of references, simple array algorithms.</li> <li>6. Advanced array algorithms, two-dimensional array.</li> <li>7. Exceptions and exception handling, files and directories, writing to text files.</li> <li>8. Reading from text files.</li> <li>9. Creating classes, encapsulation, getters and setters, constructors and their hierarchy, method overloading.</li> <li>10. Inheritance and polymorphism.</li> <li>11. Java Collections Framework, ArrayList class, wrapper classes for primitive types and autoboxing, interfaces List, Set, Map and their implementations, methods equals and hashCode.</li> <li>12. Access modifiers, abstract classes and methods, creating and implementing interfaces, sorting, static methods and variables.</li> <li>13. Creating and throwing exceptions, checked and runtime exceptions, JavaDoc, Maven.</li> </ol>	
<b>Recommended literature:</b>	



1. ECKEL, Bruce. Thinking in Java. Fourth edition. Upper Saddle River, NJ: Prentice Hall, c[2006]. ISBN 978-01-318-7248-6.
2. PECINOVSKÝ, Rudolf. OOP: naučte se myslet a programovat objektově. Brno: Computer Press, 2010. ISBN 978-80-251-2126-9.
3. SIERRA, Kathy a Bert BATES. Head first Java. Vyd. 2. Sebastopol: O'Reilly, 2005. ISBN 978-05-960-0920-5.

**Course language:**

Slovak language, english language is required only to read Java API documentation.

**Notes:**

**Course assessment**

Total number of assessed students: 836

A	B	C	D	E	FX
16.03	8.49	11.24	17.34	14.0	32.89

**Provides:** RNDr. Juraj Šebej, PhD., RNDr. Miroslav Opiela, PhD., Bc. Antónia Matisová, RNDr. Zoltán Szoplák

**Date of last modification:** 04.01.2022

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ PAZ1b/15	<b>Course name:</b> Programming, algorithms, and complexity
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 4 <b>Per study period:</b> 28 / 56 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 7	
<b>Recommended semester/trimester of the course:</b> 2.	
<b>Course level:</b> I., II.	
<b>Prerequisites:</b> ÚINF/PAZ1a/15	
<b>Conditions for course completion:</b> Graded activities during semester: assignments, small theoretical exams, practical and theoretical midterm. Final examination: practical and theoretical finalterm. Rules to pass the subject: Get at least 50% from theoretical activities (small exams, theoretical midterm and theoretical finalterm) and from practical activities (practical midterm and finalterm). Pass the defined limit of total points for all graded activities.	
<b>Learning outcomes:</b> To know essential algorithms, data structures, and methods used for efficient algorithms design. To understand time complexity analysis. To practice efficient implementation of algorithms. To recognize combinatorial and graph algorithms.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Recursion and fractals.</li> <li>2. Binary search, basic sorting algorithms, time complexity analysis, O-notation.</li> <li>3. Basic data structures and algorithms: linked list, stack, queue.</li> <li>4. Trees and their applications.</li> <li>5. Efficient sorting algorithms (QuickSort, MergeSort, HeapSort).</li> <li>6. Backtracking.</li> <li>7. Dynamic programming, divide and conquer strategy.</li> <li>8. Unweighted graphs, graph traversal, graph topological sort.</li> <li>9. Weighted graphs, the shortest path algorithms.</li> <li>10. Minimum spanning tree, greedy algorithms.</li> <li>11. Hashing, amortized time complexity, string-searching algorithms.</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. WRÓBLEWSKI, Piotr. Algoritmy: datové struktury a programovací techniky. Brno: Computer Press, 2004. ISBN 80-251-0343-9.</li> <li>2. CORMEN, Thomas H. Introduction to algorithms. 3rd ed. Cambridge: MIT Press, c2009. ISBN 978-0-262-03384-8.</li> <li>3. KLEINBERG, Jon a Éva TARDOS. Algorithm design. Thirteenth impression. Noida, India: Pearson, c2014. ISBN 9789332518643.</li> </ol>	

4. MAREŠ, Martin a Tomáš VALLA. Průvodce labyrintem algoritmů. Praha: CZ.NIC, z.s.p.o., 2017. CZ.NIC. ISBN 978-80-88168-19-5.

**Course language:**

Slovak language, literature is available in english and czech language.

**Notes:**

**Course assessment**

Total number of assessed students: 1303

A	B	C	D	E	FX
14.27	7.6	10.74	18.88	20.95	27.55

**Provides:** RNDr. Juraj Šebej, PhD., RNDr. Miroslav Opiela, PhD., Mgr. Viktor Pristaš, RNDr. Šimon Horvát, PhD., RNDr. Zoltán Szoplák

**Date of last modification:** 04.01.2022

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KPPaPZ/Ps/15		<b>Course name:</b> Psychology			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 749					
A	B	C	D	E	FX
36.85	18.42	16.82	13.48	12.42	2.0
<b>Provides:</b> PhDr. Anna Janovská, PhD., Mgr. Ondrej Kalina, PhD.					
<b>Date of last modification:</b> 24.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> KPPaPZ/PKŽ/15	<b>Course name:</b> Psychology of Everyday Life
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> The evaluation of the course and its subsequent completion will be based on clearly and objectively set requirements, which will be set in advance and will not change. The aim of the assessment is to ensure an objective and fair mapping of the student's knowledge while adhering to all ethical and moral standards. There is no tolerance for students' fraudulent behavior, whether in the teaching process or in the assessment process. 1. Active participation in seminars 2. Elaboration and presentation of PPT presentation on the assigned topic. Maximum number of points 20; minimum number of points 11. 3. Elaboration of an essay in the range of 4xA4 (standard pages). Maximum number of points 20; minimum number of points 11. The final evaluation (grade) is the sum of points for the presentation and the essay. A 40b - 37b B 36b - 33b C 32b - 29b D 28b - 25b E 24b - 21b FX 20b - 0b	
<b>Learning outcomes:</b> The student is able to demonstrate an understanding of the individual's behavior in selected everyday situations such as conflict, group influence, empathy, helping, aggression, etc. The student is able to describe, explain and evaluate the psychological mechanisms that occur in everyday situations. The student is able to apply basic psychological knowledge to himself (self-regulation) but also in interaction with others (cooperation). The method of teaching the subject will be oriented to the student. Speakers will be interested in the needs, expectations and opinions of students so as to encourage them to think critically by expressing respect and feedback on their opinions and needs. The content of the curriculum will be based on primary and high-quality sources that will reflect the topicality of the topics so as to ensure the connection of the curriculum with other subjects and also	

the connection of the curriculum with practice. Students will be expected to take an active approach in lectures and seminars with an emphasis on their independence and responsibility.					
<b>Brief outline of the course:</b> How to understand human behavior (overview of basic approaches in psychology); Basic overview of cognitive processes; Learning processes and their use in practice; Social influences, prosocial and antisocial behavior; How human emotions and motivations work; Deciding - why and when we take risks; Childhood experiences and their relationship to adulthood; Abnormal behavior, mental disorders and therapeutic approaches					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 208					
A	B	C	D	E	FX
42.79	21.15	28.85	5.29	1.44	0.48
<b>Provides:</b> Mgr. Ondrej Kalina, PhD.					
<b>Date of last modification:</b> 24.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ RPBI/20	<b>Course name:</b> Resolving computer security incidents
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 3 <b>Per study period:</b> 42 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 3	
<b>Recommended semester/trimester of the course:</b> 6.	
<b>Course level:</b> I., II.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> The condition for passing the course are homeworks (50% of the total number of points) and the final practical task (50% of the total number of points).	
<b>Learning outcomes:</b> The result of the education is an understanding of the basic approaches to solving computer security incidents from procedural and legal requirements to ways of identifying the security incident and the method of its technical solution.	
<b>Brief outline of the course:</b> 1. Introduction to computer security incident handling and response, 2. The process of handling and response to computer security incidents and computer security incident response teams, 3. Legal aspects of the computer security incidents handling, 4. Preparing for the security incidents handling and the first response, 5. Introduction to digital forensic analysis, 6. Incident handling and response to computer security incidents in the field of malware, 7. Incident handling and response to computer security incidents in the field of email communication, 8. Incident handling and response to network security incidents I., 9. Incident handling and response to network security incidents II., 10. Incident handling and response to computer security incidents in the field of web applications I., 11. Incident handling and response to computer security incidents in the field of web applications II., 12. Incident handling and response to cloud security incidents, 13. Incident handling and response to cyber security incidents in the field of insiders, 14. Final assignment.	
<b>Recommended literature:</b> 1. MURDOCH, Don. Blue Team Handbook: Incident Response Edition: A condensed field guide for the Cyber Security Incident Responder. South Carolina, United States: CreateSpace Independent Publishing Platform, 2014. ISBN 978-1500734756, 2. ANSON, Steve. Applied Incident Response. New York, United States: Wiley, 2020. ISBN 978-1119560265, 3. ROBERTS, Scott. Intelligence-Driven Incident Response: Outwitting the Adversary. Sebastopol, California, United States: O'Reilly Media, 2017. ISBN 978-1491934944.	
<b>Course language:</b> Slovak or English	
<b>Notes:</b>	

Content prerequisites: basic knowledge in the field of information security, basics of working with the Linux operating system, basic knowledge of computer networks.					
<b>Course assessment</b>					
Total number of assessed students: 15					
A	B	C	D	E	FX
66.67	26.67	0.0	6.67	0.0	0.0
<b>Provides:</b> doc. RNDr. JUDr. Pavol Sokol, PhD.					
<b>Date of last modification:</b> 26.09.2021					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> CJP/ RUS1/07	<b>Course name:</b> Russian Language for Students of Philology 1
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 3	
<b>Recommended semester/trimester of the course:</b> 3.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Active seminar participation (2 absences tolerated), selfstudy, home assignments, tests, dictations, home reading, mini-presentations. Final assessment = the average of results obtained. Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.	
<b>Learning outcomes:</b> Students will acquire basic knowledge of the Russian language (pronunciation, grammar, vocabulary, language interference, etc.), basic language skills (listening, speaking, reading, writing) and communicative language competence (linguistic, sociolinguistic, pragmatic) according to the course syllabus with special reference to topics related to their study programme. The level of proficiency: A1 (Common European Framework of Reference for Languages).	
<b>Brief outline of the course:</b> Russian alphabet, orthography, pronunciation. Russian sentence, nouns, verb conjugation, modal and irregular verbs. Pronouns, numerals, adjectives and adverbs. Language interference. Vocabulary development (getting to know, who is who, hobbies and interests, family, friends, people – character traits, countries and nationalities, home town, my university, biography, famous people, etc.) Home reading - A. P. Chekhov	
<b>Recommended literature:</b> Fozikoš, A., Reiterová, T.: Reálie rusky mluvících zemí. Plzeň, Fraus, 1998 Myronova, H., Gálová, D.: Ruština pro podnikatelskou sféru. Masarykova univerzita v Brně, Ekonomicko-správní fakulta. Brno 2003. ISBN 80-210-3258-8 <a href="http://www.kj.fme.vutbr.cz/studopory/RU/phrases/BusinessRussian.pdf">www.kj.fme.vutbr.cz/studopory/RU/phrases/BusinessRussian.pdf</a> Oganessianová D., Tregubová, J.: Cvičebnice ruské gramatiky. Praha, Polyglot, 2004 + additional texts of lecturer <a href="http://public-library.narod.ru/">http://public-library.narod.ru/</a>	
<b>Course language:</b>	

Slovak language					
<b>Notes:</b>					
<b>Course assessment</b>					
Total number of assessed students: 452					
A	B	C	D	E	FX
44.69	15.71	13.72	9.29	6.19	10.4
<b>Provides:</b> PhDr. Helena Petruňová, CSc.					
<b>Date of last modification:</b> 13.03.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> CJP/ RUS2/07	<b>Course name:</b> Russian Language for Students of Philology 2
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 4.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Active seminar participation (2 absences tolerated), home assignments, tests, home reading, mini-presentations, selfstudy. Final assessment = the average of results obtained. Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.	
<b>Learning outcomes:</b> Students will acquire a good knowledge of the Russian language (pronunciation, grammar, vocabulary, language interference, etc.), basic language skills (listening, speaking, reading, writing) and communicative language competence (linguistic, sociolinguistic, pragmatic) according to the course syllabus with special reference to topics related to their study programme. The level of proficiency: A1/A2 (Common European Framework of Reference for Languages).	
<b>Brief outline of the course:</b> Vocabulary development (hobbies, foreign languages, job and duties, travel, plans, in a foreign city, abroad, leisure time, friends, EU, UNO, etc.). Grammar (nouns, verbs, adjectives and adverbs, verbs in present, past and future tense, modal and irregular verbs). Language interference, written communication. Home reading - L.N.Tolstoy, B. Pasternak, Radio UNO - news	
<b>Recommended literature:</b> Nekolová, V., Camutaliová, I., Vasilieva-Lešková, A.: Ruština nejen pro samouky. Praha: Leda 2007 Baláž, G., Čabala, M., Svetlík, J.: Gramatika ruštiny. Bratislava: SPN 1995 Balcar M.: Ruská gramatika v kostce. Praha, Leda 1999 Fozikoš, A., Reiterová, T.: Reálie rusky mluvících zemí. Plzeň: Fraus 1998 Oganessianová D., Tregubová, J.: Cvičebnice ruské gramatiky. Praha: Polyglot 2004 + additional handouts of lecturer <a href="http://public-library.narod.ru/">http://public-library.narod.ru/</a>	
<b>Course language:</b> Russian language A1	

<b>Notes:</b>					
<b>Course assessment</b>					
Total number of assessed students: 197					
A	B	C	D	E	FX
42.13	13.71	14.21	7.11	10.66	12.18
<b>Provides:</b> PhDr. Helena Petruňová, CSc.					
<b>Date of last modification:</b> 10.02.2023					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> CJP/ RUS3/08	<b>Course name:</b> Russian Language for Students of Philology 3
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 5.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Active seminar participation (2 absences tolerated), selfstudy, home assignments, home reading, mini-presentations. Final assessment = the average of results obtained. Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.	
<b>Learning outcomes:</b> Students will acquire greater knowledge of the Russian language (grammar, vocabulary, language interference, etc.), basic language skills (listening, speaking, reading, writing) and communicative language competence (linguistic, sociolinguistic, pragmatic) according to the course syllabus with special reference to topics related to their study programme. The level of proficiency: A2/B1 (Common European Framework of Reference for Languages).	
<b>Brief outline of the course:</b> Vocabulary development (interesting towns, places, famous people, travel and accommodation, transport, food, shopping, health and illness, Niznij Novgorod, EU, Slovak-Russian relations, humanitarian aid, migration, cross-cultural communication, history of interpreting, etc.). Grammar ((irregular verbs, nouns, adjectives, passive and active voice, pronouns, etc.). Language interference, written communication, translation of texts, etc. Home reading Radio UNO – news	
<b>Recommended literature:</b> Nekolová, V., Camutaliová, I., Vasilieva-Lešková, A.: Ruština nejen pro samouky. Praha, Leda, 2007 Baláž, G., Čabala, M., Svetlík, J.: Gramatika ruštiny. Bratislava, SPN, 1995 Balcar M.: Ruská gramatika v kostce. Praha, Leda, 1999 Fozikoš, A., Reiterová, T.: Reálie ruský mluvících zemí. Plzeň, Fraus, 1998 Oganessianová D., Tregubová, J.: Cvičebnice ruské gramatiky. Praha, Polyglot, 2004 + additional handouts of lecturer <a href="http://public-library.narod.ru/">http://public-library.narod.ru/</a>	

<b>Course language:</b> Russian language A2					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 46					
A	B	C	D	E	FX
60.87	19.57	10.87	8.7	0.0	0.0
<b>Provides:</b> PhDr. Helena Petruňová, CSc.					
<b>Date of last modification:</b> 13.03.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KPE/ OLŠ/15		<b>Course name:</b> School Administration and Legislation			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 285					
A	B	C	D	E	FX
45.61	29.82	14.39	6.32	3.16	0.7
<b>Provides:</b> PaedDr. Michal Novocký, PhD.					
<b>Date of last modification:</b> 20.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚTVŠ/ ÚTVŠ/CM/13	<b>Course name:</b> Seaside Aerobic Exercise
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 2., 4., 6.	
<b>Course level:</b> I., II.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Completion: passed Condition for successful course completion: - active participation in line with the study rule of procedure and course guidelines - effective performance of all tasks- aerobics, water exercise, yoga, Pilates and others	
<b>Learning outcomes:</b> Content standard: The student demonstrates relevant knowledge and skills in the field, which content is defined in the course syllabus and recommended literature. Performance standard: Upon completion of the course students are able to meet the performance standard and: - perform basic aerobics steps and basics of health exercises, - conduct verbal and non-verbal communication with clients during exercise, - organise and manage the process of physical recreation in leisure time	
<b>Brief outline of the course:</b> Brief outline of the course: 1. Basic aerobics – low impact aerobics, high impact aerobics, basic steps and cuing 2. Basics of aqua fitness 3. Basics of Pilates 4. Health exercises 5. Bodyweight exercises 6. Swimming 7. Relaxing yoga exercises 8. Power yoga 9. Yoga relaxation 10. Final assessment Students can engage in different sport activities offered by the sea resort – swimming, rafting, volleyball, football, table tennis, tennis and other water sports in particular.	
<b>Recommended literature:</b> 1. BUZKOVÁ, K. 2006. Fitness jóga. Praha: Grada. 167 s.	



2. ČECHOVSKÁ, I., MILEROVÁ, H., NOVOTNÁ, V. Aqua-fitness. Praha: Grada. 136 s. 3. EVANS, M., HUDSON, J., TUCKER, P. 2001. Umění harmonie: meditace, jóga, tai-či, strečink. 192 s. 4. JARKOVSKÁ, H., JARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha: Grada. 209 s. 5. KOVAŘÍKOVÁ, K. 2017. Aerobik a fitness. Karolium, 130 s.	
<b>Course language:</b> Slovak language	
<b>Notes:</b>	
<b>Course assessment</b> Total number of assessed students: 54	
abs	n
11.11	88.89
<b>Provides:</b> Mgr. Agata Dorota Horbacz, PhD.	
<b>Date of last modification:</b> 29.03.2022	
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.	

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KF/VKFV/07		<b>Course name:</b> Selected Topics in Philosophy of Education (General Introduction)			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 3., 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 16					
A	B	C	D	E	FX
37.5	37.5	18.75	6.25	0.0	0.0
<b>Provides:</b> PhDr. Dušan Hruška, PhD.					
<b>Date of last modification:</b> 13.04.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ISEM1/15		<b>Course name:</b> Seminar in Written Discourse Analysis 1			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 1.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 131					
A	B	C	D	E	FX
19.08	16.79	32.06	20.61	7.63	3.82
<b>Provides:</b> doc. Marián Milčák, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ISEM2/15		<b>Course name:</b> Seminar in Written Discourse Analysis 2			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 2.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 108					
A	B	C	D	E	FX
17.59	16.67	19.44	22.22	5.56	18.52
<b>Provides:</b> doc. Marián Milčák, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/ZNLIT/07		<b>Course name:</b> Semiotic Nature of Literature			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 128					
A	B	C	D	E	FX
34.38	18.75	12.5	24.22	6.25	3.91
<b>Provides:</b> doc. PaedDr. Ivica Hajdučková, PhD.					
<b>Date of last modification:</b> 03.05.2015					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SEO/08		<b>Course name:</b> Semiotics of Aesthetic Objects			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 71					
A	B	C	D	E	FX
21.13	22.54	33.8	18.31	2.82	1.41
<b>Provides:</b> PhDr. Lukáš Šutor, PhD.					
<b>Date of last modification:</b> 04.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SBT/06		<b>Course name:</b> Semiotics of Biblical Texts			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 2.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 78					
A	B	C	D	E	FX
24.36	30.77	14.1	19.23	10.26	1.28
<b>Provides:</b>					
<b>Date of last modification:</b> 03.05.2015					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> CJP/ SJAZ/07	<b>Course name:</b> Slavonic Language
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 2.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Active seminar participation (2 absences tolerated), selfstudy, home assignments, tests, dictations, home reading, mini-presentations. Final assessment = the average of results obtained. Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.	
<b>Learning outcomes:</b> Students will acquire basic knowledge of the Russian language (pronunciation, grammar, vocabulary, language interference, etc.), basic language skills (listening, speaking, reading, writing) and communicative language competence (linguistic, sociolinguistic, pragmatic) according to the course syllabus with special reference to topics related to their study programme. The level of proficiency: A1 (Common European Framework of Reference for Languages).	
<b>Brief outline of the course:</b> Russian alphabet, orthography, pronunciation. Russian sentence, nouns, verb conjugation, modal and irregular verbs. Pronouns, numerals, adjectives and adverbs. Language interference. Vocabulary development (getting to know, who is who, hobbies and interests, family, friends, people – character traits, countries and nationalities, home town, my university, biography, famous people, etc.) Home reading - A. P. Chekhov	
<b>Recommended literature:</b> Nekolová, V., Camutaliová, I., Vasilieva-Lešková, A.: Ruština nejen pro samouky. Praha, Leda, 2007 Myronova, H., Gálová, D.: Ruština pro podnikatelskou sféru. Masarykova univerzita v Brně, Ekonomicko-správní fakulta. Brno 2003. ISBN 80-210-3258-8 <a href="http://www.kj.fme.vutbr.cz/studopory/RU/phrases/BusinessRussian.pdf">www.kj.fme.vutbr.cz/studopory/RU/phrases/BusinessRussian.pdf</a> Fozikoš, A., Reiterová, T.: Reálie rusky mluvících zemí. Plzeň, Fraus, 1998 Oganessianová D., Tregubová, J.: Cvičebnice ruské gramatiky. Praha, Polyglot, 2004 + doplňkové materiály vyučující <a href="http://public-library.narod.ru/">http://public-library.narod.ru/</a>	



<b>Course language:</b> Slovak language					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 106					
A	B	C	D	E	FX
15.09	13.21	12.26	10.38	14.15	34.91
<b>Provides:</b> PhDr. Helena Petruňová, CSc.					
<b>Date of last modification:</b> 12.04.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SHLE/07		<b>Course name:</b> Slovak Historical Lexicology and Etymology			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 98					
A	B	C	D	E	FX
39.8	32.65	15.31	0.0	1.02	11.22
<b>Provides:</b> doc. PhDr. Marianna Sedláková, PhD.					
<b>Date of last modification:</b> 15.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SMVL/15		<b>Course name:</b> Slovak Interwar Literature			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 179					
A	B	C	D	E	FX
18.99	17.88	21.79	21.23	9.5	10.61
<b>Provides:</b> doc. PaedDr. Ivica Hajdučková, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SLL45/15		<b>Course name:</b> Slovak Literature After 1945			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 167					
A	B	C	D	E	FX
30.54	14.37	25.75	19.16	7.78	2.4
<b>Provides:</b> doc. Marián Milčák, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SLb/15		<b>Course name:</b> Slovak Literature and Slovak Literature			
<b>Course type, scope and the method:</b> <b>Course type:</b> <b>Recommended course-load (hours):</b> <b>Per week: Per study period:</b> <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 1					
<b>Recommended semester/trimester of the course:</b>					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 114					
A	B	C	D	E	FX
15.79	19.3	22.81	16.67	15.79	9.65
<b>Provides:</b>					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SLKR/15		<b>Course name:</b> Slovak Literature of Classicism and Romanticism			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 3.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 220					
A	B	C	D	E	FX
6.36	30.0	25.91	14.09	19.09	4.55
<b>Provides:</b> prof. Mgr. Ján Sabol, PhD., ArtD.					
<b>Date of last modification:</b> 19.04.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SLRaM/15		<b>Course name:</b> Slovak Literature of Realism and Modernism			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 5					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 250					
A	B	C	D	E	FX
9.2	10.0	14.0	16.0	19.6	31.2
<b>Provides:</b> prof. PhDr. Ján Gbúr, CSc., doc. PaedDr. Ivica Hajdučeková, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> KPO/ SPKVV/15	<b>Course name:</b> Social and Political Context of Education
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 4., 6.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Evaluation of the developed assignment. A ... 100,00% - 91,00% B ... 90,99% - 81,00% C ... 80,99% - 71,00% D ... 70,99% - 61,00% E ... 60,99% - 51,00% FX ... 50,99% and less	
<b>Learning outcomes:</b> The aim and purpose of teaching the subject is to impart knowledge and promote reflection on the issues of education and training in the context of social and political change. Development of knowledge: the student will be able to know the current theoretical background related to the process of education and training in a modern democratic society. The student will be able to navigate the social and political space - politically, legally, socially and culturally. He/she will be able to look for alternatives and solutions to dysfunctions, while at the same time exploiting opportunities and ways to implement them.	
<b>Brief outline of the course:</b> The status, role and functions of education in human life and society. The political, social and economic objectives of education. Education, learning and social change in the context of globalisation. Macrosocial determinants of education. Current roles of education and training in modern performance and democratic society.	
<b>Recommended literature:</b> Domestic and foreign journal literature Kudláčová, B.(2007) Človek a výchova v dejinách európskeho myslenia. Trnava: PdF TU Zeus Leonardo (2010) Handbook of Cultural Politics and Education. Rotterdam, The Netherlands.	
<b>Course language:</b> Slovak	
<b>Notes:</b>	



<b>Course assessment</b>					
Total number of assessed students: 157					
A	B	C	D	E	FX
60.51	21.02	11.46	4.46	1.27	1.27
<b>Provides:</b> Mgr. Ján Ruman, PhD.					
<b>Date of last modification:</b> 13.04.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/SWI1a/15	<b>Course name:</b> Software engineering
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 4.	
<b>Course level:</b> I.	
<b>Prerequisites:</b> ÚINF/DBS1a/15	
<b>Conditions for course completion:</b> The evaluation will be given on the basis of the proper fulfilment of the partial tasks of solving the (group) project during the semester. The minimum prerequisite for passing the subject is obtaining 50% of the total possible number of points. The sub-probation conditions for evaluation are published in the AIS.	
<b>Learning outcomes:</b> By completing the subject, the student: <ul style="list-style-type: none"> <li>- acquires basic knowledge of the principles and methods of software engineering,</li> <li>- get familiar with the individual stages of the software development life cycle,</li> <li>- familiarizes himself with the modeling of software systems and acquires basic knowledge from the use of relevant SW tools,</li> <li>- will gain basic experience in working in a team and with project management and presentation.</li> </ul>	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Introduction to software engineering.</li> <li>2. Software processes</li> <li>3. Selected support tools for managing software processes.</li> <li>4. Requirements engineering.</li> <li>5. Agile methods.</li> <li>6. Modeling of systems.</li> <li>7. Implementation of software systems.</li> <li>8. Architectures of software systems.</li> <li>9. Testing.</li> <li>10. Evolution of systems.</li> <li>11. Case studies of software systems.</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. BERKUN, S. The Art Of Project Management. O Reilly, 2005.</li> <li>2. BJORNER, D. Software engineering 1,2,3. Springer-Verlag Berlin, 2006.</li> <li>3. SOMMERVILLE, I. Software Engineering. Addison-Wesley, 2015.</li> </ol>	
<b>Course language:</b>	

Slovak or English					
<b>Notes:</b> Content prerequisites: Database systems, OOP					
<b>Course assessment</b> Total number of assessed students: 346					
A	B	C	D	E	FX
20.23	24.57	19.36	16.47	17.92	1.45
<b>Provides:</b> RNDr. Dávid Varga, prof. RNDr. Gabriel Semanišin, PhD.					
<b>Date of last modification:</b> 25.07.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SPIR/07		<b>Course name:</b> Spirituality in a Literary Text			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 1.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 239					
A	B	C	D	E	FX
26.36	15.9	20.5	16.32	15.06	5.86
<b>Provides:</b> doc. PaedDr. Ivica Hajdučková, PhD.					
<b>Date of last modification:</b> 11.08.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚTVŠ/ TVa/11	<b>Course name:</b> Sports Activities I.
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 1., 3., 5., 7.	
<b>Course level:</b> I., I.II., II.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Min. 80% of active participation in classes.	
<b>Learning outcomes:</b> Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.	
<b>Brief outline of the course:</b> Brief outline of the course: Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess. In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.	
<b>Recommended literature:</b> BENCE, M. et al. 2005. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. [online] Dostupné na: <a href="https://www.ff.umb.sk/app/cmsFile.php?disposition=a&amp;ID=571">https://www.ff.umb.sk/app/cmsFile.php?disposition=a&amp;ID=571</a> BUZKOVÁ, K. 2006. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN 8024715252. JARKOVSKÁ, H, JARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha: Grada. ISBN 9788024757308. KAČÁNI, L. 2002. Futbal:Tréning hrou. Bratislava: Peter Mačura – PEEM. 278s. ISBN 8089197027.	

KRESTA, J. 2009. Futsal. Praha: Grada Publishing, a.s. 112s. ISBN 9788024725345.  
 LAWRENCE, G. 2019. Power jóga nejen pro sportovce. Brno: CPress. ISBN 9788026427902.  
 SNER, Wolfgang. 2004. Posilování ve fitness. České Budějovice: Kopp. ISBN 8072322141.  
 STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.  
 VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

**Course language:**

Slovak language

**Notes:**

**Course assessment**

Total number of assessed students: 14548

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
86.46	0.07	0.0	0.0	0.0	0.05	8.41	5.02

**Provides:** Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., MPH, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., MUDr. Peter Dombrovský

**Date of last modification:** 29.03.2022

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚTVŠ/ TVb/11	<b>Course name:</b> Sports Activities II.
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 2., 4., 6.	
<b>Course level:</b> I., I.II., II.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> active participation in classes - min. 80%.	
<b>Learning outcomes:</b> Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.	
<b>Brief outline of the course:</b> Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess. In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.	
<b>Recommended literature:</b> BENEC, M. et al. 2005. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. [online] Dostupné na: <a href="https://www.ff.umb.sk/app/cmsFile.php?disposition=a&amp;ID=571">https://www.ff.umb.sk/app/cmsFile.php?disposition=a&amp;ID=571</a> BUZKOVÁ, K. 2006. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN 8024715252. JARKOVSKÁ, H, JARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha: Grada. ISBN 9788024757308. KAČÁNI, L. 2002. Futbal:Tréning hrou. Bratislava: Peter Mačura – PEEM. 278s. ISBN 8089197027. KRESTA, J. 2009. Futsal.Praha: Grada Publishing, a.s. 112s. ISBN 9788024725345.	

LAWRENCE, G. 2019. Power jóga nejen pro sportovce. Brno: CPress. ISBN 9788026427902.  
 SNER, Wolfgang. 2004. Posilování ve fitness. České Budějovice: Kopp. ISBN 8072322141.  
 STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.  
 VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

**Course language:**

Slovak language

**Notes:**

**Course assessment**

Total number of assessed students: 13211

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
84.35	0.51	0.02	0.0	0.0	0.05	10.78	4.29

**Provides:** Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., MPH, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., MUDr. Peter Dombrovský

**Date of last modification:** 29.03.2022

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.



## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/KSI/13		<b>Course name:</b> Structural Indoeuropeanism Course			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 0					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
<b>Provides:</b> doc. PhDr. Marianna Sedláková, PhD., prof. PhDr. Ján Sabol, DrSc.					
<b>Date of last modification:</b> 15.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/SXM1/15	<b>Course name:</b> Structure formats and representation of data
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 5.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Evaluation of partial exercises. Evaluation of multiple assignments corresponding to learning blocks. Final written test.	
<b>Learning outcomes:</b> Become acknowledged with theoretical concepts and methodologies with structured and semistructured data. Acquire programming skills with implementations of these concepts.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Representation of semi-structured data in XML, valid and well-formed XML document.</li> <li>2. XML parsers: DOM,</li> <li>3. SAX parser.</li> <li>4 StAX parser.</li> <li>5. Java API of XML parsers.</li> <li>7. Schemas for XML documents: DTD, XML Schema.</li> <li>8. Addressing in XML: XPath.</li> <li>9. Transformations of XML documents: XSLT.</li> <li>10. Other formats for semistructured data: JSON, YAML.</li> <li>11. API for data binding in Java: Jackson (JSON), SnakeYAML (YAML), JAXB (XML).</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. Eliotte "Rusty" Harold. XML Bible, Gold Edition. Wiley, 2001. ISBN 978-0764548192.</li> <li>2. Grigoris Antoniou, Frank Van Harmelen. A Semantic Web Primer, Second Edition. MIT Press, 2008. ISBN 978-0262012423.</li> <li>3. Michael Kay. XSLT 2.0 Programmer's Reference, 3rd Edition. Wrox, 2004. ISBN: 978-076456909.</li> </ol>	
<b>Course language:</b> Slovak or English	
<b>Notes:</b>	

<b>Course assessment</b>					
Total number of assessed students: 90					
A	B	C	D	E	FX
35.56	22.22	21.11	11.11	8.89	1.11
<b>Provides:</b> Mgr. Alexander Szabari, PhD., RNDr. Zoltán Szoplák					
<b>Date of last modification:</b> 23.11.2021					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SVPR1/15		<b>Course name:</b> Student Research Project 1			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 6					
A	B	C	D	E	FX
83.33	0.0	16.67	0.0	0.0	0.0
<b>Provides:</b> doc. Mgr. Markéta Andričíková, PhD.					
<b>Date of last modification:</b> 23.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/SVPR2/15		<b>Course name:</b> Student Research Project 2			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 3					
<b>Recommended semester/trimester of the course:</b> 5.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 11					
A	B	C	D	E	FX
81.82	18.18	0.0	0.0	0.0	0.0
<b>Provides:</b> doc. Mgr. Markéta Andričíková, PhD.					
<b>Date of last modification:</b> 23.05.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚFV/ DGS/21	<b>Course name:</b> Students' Digital Literacy
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 1.	
<b>Course level:</b> I.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Summary evaluation based on ongoing assessment: 1. Practical ongoing assignments and their defense (at least 50% needed) 3. Active participation during face-to-face contact learning in classical or virtual classroom (3 absences allowed) and during online learning (no absence, uploading all individual ongoing assignments)	
<b>Learning outcomes:</b> The student should obtain and know to apply basic knowledge and skills in working with current digital technologies (mobile phone, tablet, laptop, web technologies): 1. according to the current European framework for the Digital competence DigComp and ECDL 2. for better and more effective learning, work and active life in higher education, later lifelong learning and further career prospects.	
<b>Brief outline of the course:</b> 01.-02. Basic digital skills, DigComp framework, ECDL - modern web browser and its personalization - security, privacy, responsible use of DT 03.-05. Search, collection and evaluation of digital content - scanning, audio recording and speech resolution, optical resolution (OCR) - digital notebooks (Google keep, Evernote, Onenote) - evaluation of digital resources (Google forms and sections) 06.-08. Editing and creating digital content - cloud and interactive documents (text and spreadsheet editors - Google, Microsoft, Jupyter) - work with pdf documents, e-books and videos (Kami, Google books, Screencasting) 09. - 10. Organization, protection and sharing of digital content - modern LMS and cloud storage (Google Classroom, Microsoft team, Google Drive, Dropbox) - time management (Google Calendar) 11.-13. Digital communication and cooperation	

<ul style="list-style-type: none"> <li>- collaborative interactive whiteboards (Jamboard, Whiteboard)</li> <li>- online presentations and online meetings</li> </ul> (Google presentations, Powerpoint, Google meet, Microsoft teams)					
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. Carretero Gomez, S., Vuorikari, R. and Punie, Y., DigComp 2.1: The Digital Competence Framework for Citizens with eight proficiency levels and examples of use, Luxembourg, 2017, ISBN 978-92-79-68006-9, <a href="https://www.ecdl.sk/">https://www.ecdl.sk/</a></li> <li>2. Bruff, D. (2019). Intentional Tech: Principles to Guide the Use of Educational Technology in College Teaching (1st edition). Morgantown: West Virginia University Press.</li> <li>3. Baker, Y. (2020). Microsoft Teams for Education. Amazon Digital Services.</li> <li>4. Miller, H. (2021). Google Classroom + Google Apps: 2021 Edition. Brentford: Orion Edition Limited.</li> </ol>					
<b>Course language:</b> slovak					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 81					
A	B	C	D	E	FX
45.68	3.7	7.41	0.0	43.21	0.0
<b>Provides:</b> doc. RNDr. Jozef Hanč, PhD.					
<b>Date of last modification:</b> 26.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚTVŠ/ LKSp/13	<b>Course name:</b> Summer Course-Rafting of TISA River
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week: 2 Per study period: 28</b> <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 2., 4., 6.	
<b>Course level:</b> I., II.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Completion: passed Condition for successful course completion: - active participation in line with the study rule of procedure and course guidelines - effective performance of all tasks: carrying a canoe, entering and exiting a canoe, righting a canoe, paddling	
<b>Learning outcomes:</b> Content standard: The student demonstrates relevant knowledge and skills in the field, which content is defined in the course syllabus and recommended literature. Performance standard: Upon completion of the course students are able to meet the performance standard and: - implement the acquired knowledge in different situations and practice, - implement basic skills to manipulate a canoe on a waterway, - determine the right spot for camping, - prepare a suitable material and equipment for camping.	
<b>Brief outline of the course:</b> Brief outline of the course: 1. Assessment of difficulty of waterways 2. Safety rules for rafting 3. Setting up a crew 4. Practical skills training using an empty canoe 5. Canoe lifting and carrying 6. Putting the canoe in the water without a shore contact 7. Getting in the canoe 8. Exiting the canoe 9. Taking the canoe out of the water 10. Steering a) The pry stroke (on fast waterways) b) The draw stroke	



11. Capsizing 12. Commands	
<b>Recommended literature:</b> 1. JUNGER, J. et al. Turistika a športy v prírode. Prešov: FHPV PU v Prešove. 2002. ISBN 8080680973. Internetové zdroje: 1. STEJSKAL, T. Vodná turistika. Prešov: PU v Prešove. 1999. Dostupné na: <a href="https://ulozto.sk/tamhle/UkyxQ2lYF8qh/name/Nahrane-7-5-2021-v-14-46-39#!ZGDjBGR2AQtkAzVkAzLkLJWuLwWxZ2ukBRLjnGqSomICMmOyZN==">https://ulozto.sk/tamhle/UkyxQ2lYF8qh/name/Nahrane-7-5-2021-v-14-46-39#!ZGDjBGR2AQtkAzVkAzLkLJWuLwWxZ2ukBRLjnGqSomICMmOyZN==</a>	
<b>Course language:</b> Slovak language	
<b>Notes:</b>	
<b>Course assessment</b> Total number of assessed students: 209	
abs	n
37.32	62.68
<b>Provides:</b> Mgr. Dávid Kaško, PhD.	
<b>Date of last modification:</b> 29.03.2022	
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.	

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/ SLO1a/15	<b>Course name:</b> Symbolic logic
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 5	
<b>Recommended semester/trimester of the course:</b> 6.	
<b>Course level:</b> I., II.	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Knowledge of studied notions will be evaluated.	
<b>Learning outcomes:</b> To understand basic notions of symbolic logic.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Mathematical symbols</li> <li>2. Expressions</li> <li>3. Interpretation</li> <li>4. Value of expression</li> <li>5. Standard interpretation</li> <li>6. Theories and their models</li> <li>7. Substitutions</li> <li>8. Allowed substitutions</li> <li>9. Proving system</li> <li>10. Correctness of basic proving system</li> <li>11. Work with logical connections</li> <li>12. Work with quantifiers</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. Krajčí S., <a href="https://ics.upjs.sk/~krajci/skola/vyucba/ucebneTexty/logika-stromy.pdf">https://ics.upjs.sk/~krajci/skola/vyucba/ucebneTexty/logika-stromy.pdf</a></li> <li>2. Goldstern M., Judah H.: The Incompleteness Phenomenon, A New Course in Mathematical Logic, A K Peters, Wellesley, Massachusetts, 1995</li> </ol>	
<b>Course language:</b> Slovak	
<b>Notes:</b>	

<b>Course assessment</b>					
Total number of assessed students: 429					
A	B	C	D	E	FX
26.81	11.19	12.35	10.72	26.11	12.82
<b>Provides:</b> prof. RNDr. Stanislav Krajči, PhD.					
<b>Date of last modification:</b> 04.01.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajči, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KPE/TVE/08		<b>Course name:</b> Theory of Education			
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 2					
<b>Recommended semester/trimester of the course:</b> 4., 6.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 631					
A	B	C	D	E	FX
43.11	31.22	16.8	5.07	1.74	2.06
<b>Provides:</b> Mgr. Katarína Petříková, PhD.					
<b>Date of last modification:</b> 20.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice					
<b>Faculty:</b> Faculty of Arts					
<b>Course ID:</b> KSSFaK/TELI/15		<b>Course name:</b> Theory of Literature 1			
<b>Course type, scope and the method:</b> <b>Course type:</b> Lecture / Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28 <b>Course method:</b> present					
<b>Number of ECTS credits:</b> 4					
<b>Recommended semester/trimester of the course:</b> 2.					
<b>Course level:</b> I.					
<b>Prerequisites:</b>					
<b>Conditions for course completion:</b>					
<b>Learning outcomes:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Course language:</b>					
<b>Notes:</b>					
<b>Course assessment</b> Total number of assessed students: 287					
A	B	C	D	E	FX
18.82	19.51	23.69	14.98	18.47	4.53
<b>Provides:</b> prof. PhDr. Marián Andričík, PhD.					
<b>Date of last modification:</b> 03.06.2022					
<b>Approved:</b> prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.					

## COURSE INFORMATION LETTER

<b>University:</b> P. J. Šafárik University in Košice	
<b>Faculty:</b> Faculty of Arts	
<b>Course ID:</b> ÚINF/TYS1/15	<b>Course name:</b> Typographical systems
<b>Course type, scope and the method:</b> <b>Course type:</b> Practice <b>Recommended course-load (hours):</b> <b>Per week:</b> 2 <b>Per study period:</b> 28 <b>Course method:</b> present	
<b>Number of ECTS credits:</b> 2	
<b>Recommended semester/trimester of the course:</b> 6.	
<b>Course level:</b> I., N	
<b>Prerequisites:</b>	
<b>Conditions for course completion:</b> Satisfiable ability to correct mainly mathematical typesetting.	
<b>Learning outcomes:</b> To provide the basic information on principles for typesetting of documents containing mathematical formulas.	
<b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Principles for typesetting of documents containing mathematical formulas.</li> <li>2. Typesetting of a plain text, special text symbols, using of text fonts.</li> <li>3. TeX macros.</li> <li>4. Enumerations in text and footnote command. Parameter setting determining the appearance of the pages.</li> <li>5. Typesetting of mathematical formulas in text and displays, aligning formulas.</li> <li>6. Making tables and pictures.</li> <li>7. Definitions, theorems, and proofs in a mathematical document.</li> <li>8. Contents, bibliography, sections in a document.</li> <li>9. Pictures.</li> <li>10.-12. Project.</li> </ol>	
<b>Recommended literature:</b> <ol style="list-style-type: none"> <li>1. D. E. Knuth, The TeXbook, Computers and Typesetting, Addison-Wesley, Reading, Massachusetts, 1986.</li> <li>2. M. Doob, Jemný úvod do TeXu, CSTUG, 1990; český překlad z "A Gentle Introduction to TeX" (text voľne prístupný v CTAN archíve).</li> <li>3. O. Ulrych, AMS-TeX za 59 minút, (verzia 1.0), Praha, 1989.</li> <li>4. J. Chlebíková, AMS-TeX (verzia 2.0), Bratislava, 1992.</li> <li>5. M. Spivak, The Joy of TeX, Amer. Math. Soc., 1986.</li> <li>6. L. Lamport, LaTeX: A Document Preparation System, Addison-Wesley, Massachusetts, 1986.</li> <li>7. L. Lamport, MakeIndex: An index processor for LaTeX, 17 February 1987.</li> <li>8. J. Rybička, LaTeX pro začátečníky, Konvoj, Brno, 1995.</li> <li>9. H. Partl, E. Schlegl, I. Hyna, P. Sýkora, LaTeX – Stručný popis.</li> </ol>	

10. T. Oetiker, H. Partl, I. Hyna, E. Schlegl, M. Kocer, P. Sýkora, Ne příliš stručný úvod do systému LaTeX2e (neboli LaTeX2e v 73 minutách).
11. M. Goossens, F. Mittelbach, and A. Samarin, The LaTeX Companion, Addison-Wesley, Reading, Massachusetts, 1994. Kapitola 8 je volně přístupná v TeX archívech (ch8.pdf). 4
12. G. Grätzer, Math into LaTeX, 3rd edition, Birkhäuser, Boston, 2000.

**Course language:**

Slovak.

**Notes:**

**Course assessment**

Total number of assessed students: 254

A	B	C	D	E	FX
48.43	17.72	20.08	6.3	6.69	0.79

**Provides:** prof. RNDr. Stanislav Krajčí, PhD.

**Date of last modification:** 08.01.2022

**Approved:** prof. PhDr. Ján Gbúr, CSc., prof. RNDr. Stanislav Krajčí, PhD.