CONTENT

1. Basic Methods of Statistic	.2
2. Data Mining.	
3. Data Modelling and Analysis by Means of CAS Systems.	
4 Multidimensional Statistical Methods	4

University: P. J. Šafá	rik University in Košice
Faculty:	
Course ID: ÚMV/ ZSM/14	Course name: Basic Methods of Statistic
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): idy period: 28
Number of ECTS cr	edits: 4
Recommended seme	ster/trimester of the course:
Course level: N	
Prerequisities:	
Conditions for cours Working out an indiv	<u>-</u>
Learning outcomes: Understanding basics	s of descriptive statistics used in sciences.
Basic characteristicBasic probability diPoint and interval eTesting of basic state	ment. Data types. Frequencies. s of data: measures of location and variability, quantiles. stributions.
	cott: Introductory Statistics, Wiley 1977 c Statistics Textbook (http://www.statsoft.com/Textbook), Statsoft, 2014
Course language: Slovak	
Notes:	
Course assessment Total number of asse	ssed students: 0
Provides: doc. RNDr	. Ivan Žežula, CSc.
Date of last modifica	ition: 03.05.2015
Approved:	

University: P. J. Šafá	rik University in Košice
Faculty:	
Course ID: ÚMV/ DAM/14	Course name: Data Mining
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	rse-load (hours): dy period: 28 esent
Number of ECTS cro	edits: 4
Recommended seme	ster/trimester of the course:
Course level: N	
Prerequisities:	
Conditions for cours Continuous assesmen	<u>-</u>
Practical skills for so	sic concepts of data mining and basic usage of freely available softwares. lving simple data mining tasks in small or medium siyed data sets (e.g. data assured for a final thesis).
	ourse: heir pre-processing; regression and classification; clustering; mining frequent on rules; freeware data mining programs; the CRISP-DM methodology
Kaufmann, ISBN 978	line Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan 8-0123814791, 2011. ichael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-
Course language: Slovak	
Notes:	
Course assessment Total number of asses	ssed students: 0
Provides: RNDr. Ton	náš Horváth, PhD.
Date of last modifica	tion: 03.05.2015

Approved:

	COURSE INFORM	MATION LETTER
University: P. J. Šafá	rik University in Košice	
Faculty:		
Course ID: ÚMV/ MAD/14	Course name: Data Model	lling and Analysis by Means of CAS Systems
Course type, scope a Course type: Practic Recommended cou Per week: 3 Per stu Course method: pro	ce rse-load (hours): dy period: 42	
Number of ECTS cr	edits: 4	
Recommended seme	ster/trimester of the cours	e:
Course level: N		
Prerequisities:		
Conditions for cours examination based of system	-	of a given real problem using a computer algebra
Learning outcomes: To provide knowled algebra systems.	ge and skills for mathemati	cal modelling and data analysis using computer
language syntax. Da	hematica CAS systems: co	emparison, environment, basic functionality and sualizations and analyses. Basic and advanced S.
I. Shingareva, C. Liz Mathematics, Spring	to Maple / Mathematica	athematica. A Problem Solving Approach for , New York, 2003
Course language: Slovak or English		
Notes:		
Course assessment Total number of asse	ssed students: 9	
	abs	n
	100.0	0.0
Provides: prof. RND	r. Tomáš Madaras, PhD.	
Date of last modifica	ntion: 03.05.2015	

Approved:

	COURSE INFORM	MATION LETTER
University: P. J. Šafá	rik University in Košice	
Faculty:		
Course ID: ÚMV/ VRS/14	Course name: Multidimen	sional Statistical Methods
Course type, scope a Course type: Practic Recommended cou Per week: 3 Per stu Course method: pre	ce rse-load (hours): dy period: 42	
Number of ECTS cr	edits: 4	
Recommended seme	ster/trimester of the cours	e:
Course level: N	,	
Prerequisities:		
Conditions for cours Given at the basis of		rking out an individual project.
Learning outcomes: To learn to use the m	ost widely used multivariate	e methods of data processing practically.
tables, odds and risk	ultivariate normal distribution ratios. Logistic regression	on. Different dependence measures. Contingency a. Classification trees, cluster analysis, principal actor analysis, linear discriminant analysis.
Springer, 2012 2. Wolfgang Härdle, Springer, 2007 3. Ho, R.: Handbook Chapman & Hall/CR 4. Garson, D.: PA 76	rdle, Léopold Simar. Heidel Zdeněk Hlávka: Multivariat of univariate and multivaria C, 2006 5 Statnotes: An Online Text	berg: Applied multivariate statistical analysis, e statistics: Exercises and solutions. New York: ate data analysis and interpretation in SPSS, book (elektronická učebnica, http:// n), North Carolina State University, 1998
Course language: Slovak		
Notes:		
Course assessment Total number of asse	ssed students: 14	
	abs	n
	92.86	7.14
Provides: RNDr. Dar	niel Klein, PhD.	

Date of last modification: 26.03.2019

Approved:	
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