University: P. J. Šafá	rik University in Košice
Faculty: Faculty of P	ublic Administration
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): dy period: 28
Number of credits: 4	ŀ
Recommended seme	ster/trimester of the course:
Course level: N	
Prerequisities:	
Conditions for cours Working out an indiv	1
Learning outcomes: Understanding basics	s of descriptive statistics used in sciences.
 Basic characteristics Basic probability di Point and interval es Testing of basic state 	ment. Data types. Frequencies. s of data: measures of location and variability, quantiles. stributions.
	nture: cott: Introductory Statistics, Wiley 1977 c Statistics Textbook (http://www.statsoft.com/Textbook), Statsoft, 2014
Course language: Slovak	
Notes:	
Course assessment Total number of asses	ssed students: 0
Provides: doc. RNDr.	. Ivan Žežula, CSc.
Date of last modifica	ation: 03.05.2015
Approved:	

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of P	ublic Administration
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	re rse-load (hours): dy period: 28
Number of credits: 4	
Recommended seme	ster/trimester of the course:
Course level: N	
Prerequisities:	
Conditions for cours Continuous assesmen	•
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 easured 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. Tom	náš Horváth, PhD.
Date of last modifica	tion: 03.05.2015
Ammunada	

Approved:

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of P	
Course ID: ÚMV/ MAD/14	Course name: Data Modelling and Analysis by Means of CAS Systems
Course type, scope a Course type: Lectur Recommended cou Per week: 2 Per stu Course method: pre	re rse-load (hours): ıdy period: 28
Number of credits: 4	4
Recommended seme	ester/trimester of the course:
Course level: N	
Prerequisities:	
Conditions for course examination based of system	se completion: n working-out the solution of a given real problem using a computer algebra
Learning outcomes: To provide knowledgebra systems.	ge and skills for mathematical modelling and data analysis using computer
language syntax. Da	course: thematica CAS systems: comparison, environment, basic functionality and ata import and export, visualizations and analyses. Basic and advanced natical modelling using CAS.
I. Shingareva, C. Liz Mathematics, Spring	ature: to Maple / Mathematica arrága-Celaya: Maple an Mathematica. A Problem Solving Approach for er-Verlag/Wien, 2007, 2009 n to Maple, Springer-Verlag, New York, 2003
Course language: Slovak or English	
Notes:	
Course assessment Total number of asse	essed students: 0
Provides: doc. RNDr	r. Tomáš Madaras, PhD.
Date of last modifica	ation: 03.05.2015

University: P. J. Šafárik University in Košice Faculty: Faculty of Public Administration Course ID: ÚMV/ VRS/14 Course name: Multidimensional Statistical Methods Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: N Prerequisities: Conditions for course completion:
Course ID: ÚMV/ VRS/14 Course name: Multidimensional Statistical Methods Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: N Prerequisities: Conditions for course completion:
VRS/14 Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: N Prerequisities: Conditions for course completion:
Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: N Prerequisities: Conditions for course completion:
Recommended semester/trimester of the course: Course level: N Prerequisities: Conditions for course completion:
Course level: N Prerequisities: Conditions for course completion:
Prerequisities: Conditions for course completion:
Conditions for course completion:
•
Given at the basis of partial examination and working out an individual project. Learning outcomes: To learn to use the most widely used multivariate methods of data processing practically.
Brief outline of the course: Multivariate data. Dependence measures. Contingency tables. Regression analysis. Logistic regression. Analysis of variance. Basics of time series. Cluster analysis.
Recommended literature: 1. Ho, R.: Handbook of univariate and multivariate data analysis and interpretation in SPSS, Chapman & Hall/CRC, 2006 2. Garson, D.: PA 765 Statnotes: An Online Textbook (electronic textbook, http:// www2.chass.ncsu.edu/garson/pa765/statnote.htm), North Carolina State University, 1998
Course language: Slovak
Notes:
Course assessment Total number of assessed students: 0
Provides: RNDr. Daniel Klein, PhD.
Date of last modification: 03.05.2015
Approved: