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	e rse-load (hours): dy period: 28
Number of credits: 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	of descriptive statistics used in sciences.
Basic characteristicsBasic probability diPoint and interval esTesting of basic state	ment. Data types. Frequencies. s of data: measures of location and variability, quantiles. stributions.
Recommended literature: • Wonnacott, Wonnacott: Introductory Statistics, Wiley 1977 • Statsoft's Electronic 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	tion: 03.05.2015

	COURSE IN ORMATION LETTER
University: P. J. Šafár	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	e 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	<u>•</u>
Practical skills for so	sic concepts of data mining and basic usage of freely available softwares. Iving simple data mining tasks in small or medium siyed data sets (e.g. data asured 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 3-0123814791, 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., Mgr. Tomáš Jakab
Date of last modifica	tion: 03.05.2015

University: P. J. Šafárik University in Košice **Faculty:** Course ID: ÚMV/ Course name: Data Modelling and Analysis by Means of CAS Systems MAD/14Course 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:** examination based on working-out the solution of a given real problem using a computer algebra system **Learning outcomes:** To provide knowledge and skills for mathematical modelling and data analysis using computer algebra systems. **Brief outline of the course:** The Maple and Mathematica CAS systems: comparison, environment, basic functionality and language syntax. Data import and export, visualizations and analyses. Basic and advanced techniques of mathematical modelling using CAS. **Recommended literature:** the reference manual to Maple / Mathematica I. Shingareva, C. Lizarrága-Celaya: Maple an Mathematica. A Problem Solving Approach for Mathematics, Springer-Verlag/Wien, 2007, 2009 A. Heck: Introduction to Maple, Springer-Verlag, New York, 2003

Course language:

Slovak or English

Notes:

Course assessment

Total number of assessed students: 0

Provides: doc. RNDr. Tomáš Madaras, PhD.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice **Faculty:** Course ID: ÚMV/ **Course name:** Multidimensional Statistical Methods **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:** 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