Pavol Jozef Šafárik University in Košice, Faculty of Medicine Department of Medical Informatics

MEDICAL INFORMATICS AND STATISTICS

Topics for Final Examination

- 1. Informatics, Medical Informatics
- 2. Information Systems, Information Technologies
- 3. Information, Information Units
- 4. eHealth, priorities in eHealth
- 5. Telemedicine, e-Learning in medicine
- 6. Data protection in information systems, electronic signature
- 7. Databases, design and utilization of databases
- 8. Tables in database, table fields, types of fields and their properties
- 9. Relations between tables
- 10. Forms in database, types of forms
- 11. Filters and sort functions
- 12. Queries in database, types of queries, selection criteria
- 13. Reports in database, data summary
- 14. Basic terms in statistics, data acquisition, survey and experiment
- 15. Descriptive statistics, measures of location, variability and shape
- 16. Data sampling and selection, frequency, histogram
- 17. Theory of probability
- 18. Random variables, distribution function, density function
- 19. Theoretical distribution models of random variables
- 20. Normal distribution, tests for normality
- 21. Estimation of population parameters
- 22. Theoretical principles of statistical hypotheses
- 23. Hypothesis tests for a mean
- 24. Hypothesis tests for a variance
- 25. Analysis of variance
- 26. Regression and correlation analysis
- 27. Evidence Based Medicine
- 28. Terminology in medicine
- 29. Electronic health records in out-patient clinics
- 30. Types of information systems used in health care institutions

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Assessment of Learning Achievements

Only the students who passed out all the exercises and achieved at least 60% from each test during winter and summer terms are allowed to register for the final examination.

The final examination consists of written test (test from theory) and practical test. The practical test can be done only by the students who reached at least 60% from written test.

The overall assessment of the course respects results from assessment tests done during exercises and results of examination tests as stated in the following table.

Activity	Results to be counted	Portion in overall assessment	Note
Exercises	Continuous	20 %	Average of points (%) the student obtained from
	assessment	20 /0	tests during winter and summer terms.
Examination	Written test	40 %	Only the students with 60 or more % from written
			test will be allowed to take the practical test.
	Practical test	40 %	Students have to solve practical tasks using
			software they used during exercises.

Based on the amount of obtained points (%) the student will get the grade:

	Assessment levels	Overall	Numeric value
ECTS	Text and explanation	assessment scale	
A	excellent - outstanding results	93 – 100 %	1
В	very good – above average	85 – 92 %	1,5
С	good – average scores	77 – 84 %	2
D	satisfactory – acceptable results	69 – 76 %	2,5
Е	sufficient – performance meets the minimum criteria	60 – 68 %	3
FX	fail – further work is required	< 60 %	4

Last modified: 8.2.2018 doc. Ing. Jaroslav Majerník, PhD. Head of department