Biostatistics curriculum
Autumn semester

Week	Date	Number	Title	Lecturer	English seminar			
					Title	Teacher 1	Teacher 2	Teacher 3*
1	09, Sept (Dent) 11, Sept (Med)	1	Introduction, math introduction	SZGT				
2	14, Sept (Med) 14, Sept (Dent)	2	Conditional probability and its clinical implications. Marginalization. Bayes's theorem. Independent events.	PF	Conditional probability and its clinical implications. Marginalization. Bayes's theorem. Independent events.	DBA	BZS	SzõÁ
	16, Sept (Dent) 18, Sept (Med)	3	Descriptive statistics (measure of central tendency and spread; percentile, quartile). Histograms, box and whisker plot.	JA				
3	23, Sept (Dent) 25, Sept (Med)	4	Characterization of discrete distributions (probability distribution, cumulative distribution function). Binomial and Poisson distribution.	VáGy	Descriptive statistics. Histograms, box and whisker plot.	HP	GK	RI
4	30 Sept(Dent) 2,Oct (Med)	5	Continuous random variables. Probability density function. Normal distribution, standard normal distribution.	ML	Discrete distributions (probability distribution and distribution function). Binomial and Poisson distributions.	JA	VáGy	KT
4					**Seminar test #1**			
5	7, Oct (Dent) 9, Oct (Med)	6	Sampling, representative sample, unbiased estimation. Central limit theorem. Standard error of the mean. Introduction to hypothesis testing.	VGy	Normal distribution, standard normal distribution	PGY	PZ	CsI
6	14, Oct (Dent) 16, Oct (Med)	7	Hypothesis testing, type I and type II errors, one- and two tailed tests. p value. z test, one sample t-test.	PGy	Sampling, representative sample, unbiased estimation. Central limit theorem. Standard error of the mean.	VZ	ML	ZF
7	21, Oct (Dent) 23, Oct (Med)	8	Statistical tests: paired and unpaired t-test, F test.	VZ	Hypothesis testing, Level of significance, type I and type II errors, one- and two tailed tests. p value. z-test, one sample t-test.	VZ	FZS	HT
8	28, Oct (Dent) 30, Oct (Dent)	9	Clinical implications of conditional probability (sensitivity, specificity, positive and negative predictive values). ROC curve. Analysis of discrete random variables. Chi-squared test. Epidemiologic investigations: relative risk, odds ratio. Kaplan-Meier curve.	NP	Statistical tests: paired and unpaired t-test, F test.	VGY	PF	SzGT
8			**Grade offering test #1 (lectures 1-5)**					
9	4, Nov (Dent) 6, Nov (Med)	10	Summary.Outlook (confidence interval, non-parametric statistical tests, normality tests, analysis of variance (ANOVA)).	VZ	Clinical implications of conditional probability (sensitivity, specificity, positive and negative predictive values). ROC curve. Analysis of discrete random variables. Chi-squared test. Epidemiologic investigations: relative risk, odds ratio; Kaplan-Meier curve	ML	NP	KT
10	11, Nov (Dent) 13, Nov (Med)				Summary	NE	SZGT	MB
					Seminar test #2			
11								
12			**Grade offering test #2 (lectures 6-10)**					

Biostatistics lecture:
Med:
week 2: Monday, 8:00-9:00 (LSB F.015-016)
weeks 1-10: Friday, 11:00-12:00 (LSB F.015-016)

Dent:
week 2: Monday, 10:00-11:00 (LSB F.003-004)
weeks 1-10: Wednesday, 15:00-16:00 (LSB F.003-004)