Biostatistics course: semester plan status 15092018 - may develop over the semester

lecture	topics	literature
week01, 18.9.2018	introduction, basic terms, datatypes, uni-variate graphical displays	HSAUR3_ch1_introduction_to_R.pdf
week02, 25.9.2018	summary statistics, boxplot, bi-variate graphical displays	HSAUR3_ch2_graphical_display.pdf
week03, 2.10.2018	zoo of distributions, simple inference, estimates, standard error, confidence interval	IPSUR-vignette-distributions.pdf
week04, 9.102018	statistical tests for a continuous variable: 2 groups: t-test, Wilcoxon test;	HSAUR3_ch4_simple_inference.pdf
week05, 16.10.2018	sample size calculation, multiple testing	HSAUR3_ch4_simple_inference.pdf
week06, 23.10.2018	Relative Risk, Odds Ratio, study types, independence test for a categorical variables: Chi-square, Fischer exact test	
week07, 30.10.2018	diagnostic tests, sensitivity, specificity, predictive value, ROC-curves	statistics.notes.diagnostic.tests.pdf
week08, 6.11.2018	correlation, simple linear regression	HSAUR3_ch6_linear_regression.pdf
week09, 13.11.2018	multiple linear regression	HSAUR3_ch6_linear_regression.pdf
week10, 20.11.2018	anova vs linear regression, model selection, warnings and limitations, start logistic regression	
week11, 27.11.2018	logistic regression continued, propensity matching	HSAUR3_ch7_logistic_regression_glm.pdf
week12, 4.12.2018	tree models and random forest	HSAUR3_ch9_tree_modes.pdf
week13, 11.12.2018	exam, reliability analysis	
week14, 18.12.2018	survival analysis	HSAUR3_ch11_survival_analysis.pdf