Week 1: Introduction and one sample parametric test on mean
L1 Introduction to statistical tests
L2 One sample t-test
L3 Paired sample t-test and Z-test

Week 2: Hypothesis test
L4 Critical value and rejection region
L5 Power and sample size
L6 Confidence intervals

Week 3: One sample non-parametric test on mean
L7 Non-parametric tests: binomial test
L8 Non-parametric tests: sign test
L9 Wilcoxon signed-rank test

Week 4: Two sample test on means
L10 Transforming data to symmetry
L11 Two sample test: t-test
L12 Two sample test: Wilcoxon rank-sum test

Week 5: Test on variances
L13 Chi-square and F- tests
L14 Experimental design
L15 One way ANOVA test I

Week 6: One way analysis of variance (ANOVA)
L16 One way ANOVA test II
L17 Individual comparison
L18 The Kruskal-Wallis test

Week 7: Two way ANOVA I
L19 Two way ANOVA test I
L20 Two way ANOVA test II

Week 8: Two way ANOVA II
L21 The Friedman test
L22 Two way ANOVA test with replicates

Week 9: Regression Analysis I
L23 Regression analysis: least squares
L24 Regression analysis: robust method
L25 Regression analysis: estimation and inference

Week 10: Regression Analysis II
L26 Regression analysis: ANOVA and prediction
L27 Regression and correlation

Weel 11: Chi-square goodness-of-fit test I
L28 Chi-square test for categorical data
L29 Chi-square test for discrete distribution

Week 12: Chi square goodness-of-fit test II
L30 Chi-square test for continuous distribution
L31 Chi-square test for homogeneity and independence

Week 13: Revision
L32 Revision
L33
L34 Past examination papers