



Satuan Acara Pengajaran

ECEU601201 - Statistika Lanjutan

Pengajar

Dr. Uswatun Hasanah S.E., M.S.E.

Nurkholis S.E., M.S.E.

Minggu 1

Materi Introduction
? Review on Sampling Methods
? Review on Hypothesis Testing
? Each group is assigned with a small research using primary data (see Paper Description below)

Media Whiteboard, Computer and Infocus

Referensi AKDL: 14
LMW: 10
JK: 9, 10

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 2

Materi Two-Sample Test of Hypothesis
? Testing hypothesis for two populations with independent samples;
? Testing hypothesis for two populations with dependent samples
? Testing hypothesis for two population proportions

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Referensi JK:10
LMW: 11
PN: 10

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 3

Materi Analysis of Variance (ANOVA)
? Explanation of F distribution
? Testing procedure for two population variances
? Understanding of testing hypothesis for multiple comparison between subgroup means
? Procedure and examples of testing means uniformity compa

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Referensi JK: 13
LMW: 12
PN: 15

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 4

Materi Analysis of Variance (ANOVA)
Testing hypothesis for multiple comparison between subgroup means with two-way ANOVA without interaction: one observation per cell

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Referensi JK: 13
LMW: 12
PN: 15

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 5

Materi Analysis of Variance (ANOVA)
Testing hypothesis for multiple comparison between subgroup means with two-way ANOVA with interaction: more than one observation per cell

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Referensi JK: 13
LMW:12
PN: 15

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 6

Materi Test of independency (contingency tables)
? Understanding the characteristic of Chi-Square Distribution
? Procedure for test of independency or relationship between two nominal-scale variables
Examples of test of independency

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Referensi JK: 12
LMW: 17
PN: 14

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 7

Materi Goodness of fit
and Review
? Procedure of testing goodness of fit between two distribution
? Examples of goodness of fit test
? Review of the important Concept or theories before mid-term exam

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Referensi JK: 12
LMW: 17
PN: 14

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 8

Materi Non Parametric test for qualitative statistics
? Introduction to Non Parametric methods
? Procedures and examples of:
? Sign test
? Wilcoxon sign ranked test
Wilcoxon rank-sum test (Mann-Whitney U test)

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Referensi JK: 20
LMW: 18
PN: 14

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 9

Materi Non Parametric test for qualitative statistics (cont.)
? Procedures and examples of:
? Kruskal-Wallis test
Spearman rank-order correlation

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Referensi JK: 20
LMW:18
PN: 14

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 10

Materi Simple Regression and Correlation Analysis
? Introduction
? Estimation Using the Regression Line
? The Ordinary Least Square Method Coefficient of Correlation
? Coefficient of Determination
? Testing the Significant of the Correlation
? Standard error of

Media Whiteboard, Computer and Infocus

Referensi JK: 14
LMW: 13
PN: 11

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 11

Materi Multiple Regression and Correlation Analysis
? F ? Test with ANOVA Table
? Multiple Standard Error of Estimate
? Evaluating the Regression Equation
? Interval estimation and testing hypothesis for parameters
? Using Dummy Variables
? Evaluating the Reg

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Referensi JK: 14
LMW: 14
PN: 12

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 12

Materi Time Series and Forecasting
? Introduction
? Components of a Time Series
? Linear Trend Analysis
Exponentials and quadratic trend Analysis and Growth Models

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Referensi JK: 15
LMW: 16
PN: 16

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 13

Materi Time Series and Forecasting (cont.)
? The moving-average method
? Weighted moving-average
? Seasonal variation for determining the seasonal index
? Deseasonalized data
? Review of the important Concept or theories before final-term exam

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Referensi JK: 15
LMW: 16
PN: 16

Aktivitas ? Lecturing and Discussion
? Class and Group assignment

Minggu 14

Materi Presentation
Each group presents the result of processing survey data and its analysis. The report of analysis should be submitted on final exam day.

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Referensi

Aktivitas Presentation
