



# Satuan Acara Pengajaran

ECEU601201 - Statistika Lanjutan

Pengajar

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## Minggu 1

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**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)

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**Media** Whiteboard, Computer and Infocus

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

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 2

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK:10  
LMW: 11  
PN: 10

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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### Minggu 3

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 13  
LMW: 12  
PN: 15

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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### Minggu 4

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 13  
LMW: 12  
PN: 15

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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### Minggu 5

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 13  
LMW:12  
PN: 15

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 6

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 12  
LMW: 17  
PN: 14

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 7

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 12  
LMW: 17  
PN: 14

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 8

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 20  
LMW: 18  
PN: 14

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 9

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

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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 20  
LMW:18  
PN: 14

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 10

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**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

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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 14  
LMW: 13  
PN: 11

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 11

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 14  
LMW: 14  
PN: 12

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 12

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 15  
LMW: 16  
PN: 16

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 13

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi** JK: 15  
LMW: 16  
PN: 16

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**Aktivitas** ? Lecturing and Discussion  
? Class and Group assignment

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## Minggu 14

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**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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**Media** Whiteboard, Computer and Infocus

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**Referensi**

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**Aktivitas** Presentation

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