



Satuan Acara Pengajaran

MAT40222 - Rancangan Percobaan (S)

Pengajar

Dr. Dra. Dian Lestari D.E.A.

Minggu 1

Materi Pengenalan materi
Prinsip dasar rancangan percobaan

Media Papan tulis

Referensi [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
[2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
[3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.

Aktivitas tutorial

Minggu 2

Materi Rancangan acak sempurna
Anova fixed effect model dan pemeriksaan asumsi

Media Papan tulis, LCD

- Referensi**
- [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
 - [2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
 - [3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.
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Aktivitas Presentasi, diskusi

Minggu 3

Materi Random effect model
Diskusi

Media Papan tulis, LCD

- Referensi**
- [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
 - [2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
 - [3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.
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Aktivitas Presentasi, diskusi

Minggu 4

Materi Metode perbandingan berganda

Media Papan tulis, LCD

- Referensi**
- [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
 - [2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
 - [3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.
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Aktivitas Presentasi, diskusi

Minggu 5

Materi Penentuan ukuran sampel
Polinomial orthogonal

Media Papan tulis, LCD

Referensi [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
[2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
[3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.

Aktivitas Presentasi, diskusi

Minggu 6

Materi Rancangan blok acak lengkap

Media Papan tulis, LCD

Referensi [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
[2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
[3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.

Aktivitas Presentasi, diskusi

Minggu 7

Materi Review
UTS

Media Papan tulis

Referensi [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
[2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
[3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.

Aktivitas diskusi
ujian

Minggu 8

Materi Latin square design
Qraeco latin square design

Media Papan tulis, LCD

Referensi [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
[2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
[3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.

Aktivitas Presentasi, diskusi

Minggu 9

Materi Rancangan blok tidak lengkap seimbang
Rancangan faktorial umum & 2 pangkat k

Media Papan tulis, LCD

Referensi [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
[2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
[3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.

Aktivitas Presentasi, diskusi

Minggu 10

Materi Blocking dalam faktorial 2 pangkat k
Confounding dalam faktorial 2 pangkat k

Media Papan tulis, LCD

- Referensi**
- [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
 - [2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
 - [3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.
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Aktivitas Presentasi, diskusi

Minggu 11

Materi Fractional factorial

Media Papan tulis, LCD

- Referensi**
- [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
 - [2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
 - [3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.
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Aktivitas Presentasi, diskusi

Minggu 12

Materi Aturan EMS
Latihan soal

Media Papan tulis, LCD

- Referensi**
- [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
 - [2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
 - [3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.
-

Aktivitas Presentasi, latihan

Minggu 13

Materi Latihan soal
Review
Diskusi

Media Papan tulis

Referensi [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
[2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
[3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.

Aktivitas Pembahasan soal, diskusi

Minggu 14

Materi Ujian Akhir Semester

Media

Referensi [1] Montgomery, D.C. (1997). Design and Analysis of Experiments. 4th ed. John Wiley & Sons, New York.
[2] Cochran, W.G. & Gertrude M. Cox.(1992). Experimental Design John Wiley & Sons, New York.
[3] Box, G.E.P., W.G. Hunter & J. S. Hunter (1978). Statistics for Experimenters: An Introduction to Design, Data Analysis, and Model Building. John Wiley & Sons, New York.

Aktivitas
