

Teaching plan for STAT 337 (Sampling Technique)

| Week | Subjects |
|------------|---|
| W1 | Chapter1 1.3 Basic Principles. 1.4 Guidelines for designing experiments. |
| W2 | Chapter2 Statistical inference (2.3, 2.4, 2.5, 2.6) |
| W3 | Chapter3 Experiments with a single factor (One way analysis of variance) Completely Randomized Design (CRD)) (3.1-3.4) |
| W4 | A Regression Model (3.5.1 and 3.10) |
| W5 | Multicomparisons (3.5.2) |
| W6 | Contrasts, orthogonal contrasts,) from (3.5.4-3.5.8) |
| W7 | Determining sample size (3.7) |
| W8 | Chapter4: The randomized completely block design (RCBD) (4.1) |
| W9 | The Latin square design (4.2) |
| W10 | Chapter5: Factorial designs from (5.1-5.3) |
| W11 | The general factorial designs (5.4) |
| W12 | Chapter6: The 2 ^k Factorial design (6.1,6.2) |

The Evaluations

| Type | Week | Contents | Points |
|----------------------------|------------|---|-----------|
| 1st exam | W7 | From Chapter1 to (3.5.2) or {From W1 to W5} | 20 |
| 2nd exam | W10 | From 3.5.4 to 4.2 or {W6-W9} | 20 |
| practical exam | W13 | | 10 |
| Quiz1 | | | 5 |
| Quiz2 | | | 5 |
| Final exam | | RCBD, Chapter5, Chapter6 or {W8, W10-W12} | 40 |

Learning Resources and Facilities

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| Required Textbooks | Design and Analysis of Experiments, Eighth Edition , DOUGLAS C. MONTGOMERY . Design and Analysis of Experiments - Douglas C. Montgomery - كتب Google |
| Essential References Materials | |
| Electronic Materials | Lectures published on LMS.ksu.sa |
| Other Learning Materials | |