

IENG 514

Design of Industrial Experiments

Fall 2014

INSTRUCTOR: Dr. Majid Jaridi (majid.jaridi@mail.wvu.edu)

OFFICE: 303 Mineral Resources Building

OFFICE HOURS: 10:00 - 12:00 M, W or by appointment. Call 304-293-4099.

TEXTBOOK: Design and Analysis of Experiments, D.C. Montgomery, John Wiley, 8th Edition

WEEK	TOPIC
1	Review of Basic Concepts
2	One-Way ANOVA
3	More about ANOVA
4	Problems and Review: <u>TEST I</u>
5	Randomized Blocks, Latin Squares, and Related Designs
6	Introduction to Factorial Designs
7	General Factorial Designs and $2^k$ Factorial Designs
8	Blocking and Confounding in the $2^k$ Factorial Designs
9	Two-Level Fractional Factorial Designs
10	Three-Level and Mixed-Level Factorial and Fractional Factorial Designs
11	Problems and Review: <u>TEST II</u>
12	Regression and Response Surface Methodology
13	Regression and Response Surface Methodology
14	Thanksgiving Recess
15	Experiments with Random Factors
16	Nested and Split-Plot Designs

General Policies

1. Makeup tests and incomplete grades are not given except as allowed by university policy.
2. All tests will be open book and notes.
3. No credit will be given for attendance. Class participation is highly encouraged and will affect the final grade in borderline cases.
4. Students must bring the text to class for reference.

Grading Policies

Test I	25%
Test II	25%
Homework	10%
Final Test	40%

Tentative Grading Basis

> 90%	:	A
80% -- 89%	:	B
70% -- 79%	:	C
60% -- 69%	:	D
< 59%	:	F

Final Test: Friday December 13, 2013, 11:00 a.m. to 1:00 p.m.