IE 230-01: INTRODUCTION TO PROBABILITY AND STATISTICS (2-2-3)

Course Instructor: Prof. Dr. Fetih YILDIRIM

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Class Hours: Tue. 09:20- 11:20 HA 05   **Rec. Hours:** Wed. 15:20-16:20 RA 03

Office Hours: Tue. 16.30-17.30 or by appointment

Text Book: Montgomery, D. C. and Runger, G. C. " Applied Statistics and Probability for Engineers (6th Ed.)", Wiley, N.Y.

Reference Book 1: Navidi William "Statistics for Engineers and Scientists (4th Ed)", McGraw-Hill, N. Y.

Reference Book 2 : Freud J. E. (2006) "Modern Elementary Statistics (12th Ed.)", Prentice Hall, N. Y.

Reference Book 3: Prem S. Mann (1995): "Statistics for Business and Economics", John Wiley and Sons, N. Y.

Grading Policy: 2 Midterm exams each of with 20 %, 4 Homeworks with 10 %, and Final exam with 50%.

Attendance: Students are expected to attend **at least 50%** of all lectures and recitations. **Those students who did not attend any of the midterms and corresponding makeups will not be taken to the final exam and get NA grades.**

Course Schedule

Week 1: Introduction to Basic Probability   **Week 2**: Continued   **Week 3**: Commonly Used Distributions

Week 4: Continued   **Week 5**: Continued   **Week 6**: Sampling Distributions   **Week 7**: Point and Interval

Estimations   **Week 8**: Continued   **Week 9**: Introduction to Hypothesis Testing   **Week 10**: Continued

Week 11: Correlation and Simple Linear Regression   **Week 12**: Continued   **Week 13**: Multiple Linear

Regression   **Week 14**: Continued