

CE 205 Statistical Methods for Engineers

2024-25 Fall Semester

Instructor:

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Teaching Assistant:

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Time and Location:

Tuesday 10.45 – 12.30 B211

Thursday 08.45 - 09.30 B211

Course description:

- Definition and importance of probability as well as historical development within the engineering applications will be studied in the course
- topics such as
 - theory of probability,
 - significant frequency distributions,
 - determination of distribution parameters,
 - hypothesis testing,
 - correlation and regression analysis

will be covered by means of engineering applications

Prerequisite(s): None

References:

Ang, A.H.-S, Tang, W.H. "Probability Concepts in Engineering: Emphasis on Applications in Civil & Environmental Engineering" J. Wiley and Sons, 2007.

Bayazit, M., Oğuz, B., " Probability and Statistics", Birsen Yayınevi, (1998).

Larry, J. Engineering Statistics-Demystified.2007 (ISBN:9780071462723).

D.C. Motgomery, G.C.Runger. Applied Statistics and Probability for Engineers, 2006. John Wiley, (ISBN:9780470137598).

Nelson, P., Copeland, Karen, Marie Coffin. Introductory Statistics for Engineering Experimentation, Academic Press, 2003, (ISBN:9780125154239).

Hines, W.W., Montgomery, D.C., Goldsman, D.M.and C.M Borrer. Probability and Statistics in Engineering, 2003. John Wiley (ISBN:9780471240877).

Devore, J., Farnum, N. Applied Statistics for Engineers and Scientists. 2004, Duxbury Press, (ISBN:9780534467197).

Course Website:

Students are required to be enrolled to **CE205** on **TEAMS**. All announcements and course material will be posted on TEAMS.

Important:

Attendance and problem solving experience are essential for success in this fundamental course.

Grading:

The final grades will be computed according to the following scheme:

Assessment	Weight	Date
Midterm I	25%	21.11.2024 (Tentatively)
Midterm II	25%	19.12.2024 (Tentatively)
Final Exam	50%	09.01.2025 (Tentatively)