

# **CE 205 Statistical Methods for Engineers**

2025-26 Fall Semester

## **Instructor:**

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## **Teaching Assistant:**

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## **Time and Location:**

**Wednesday** 14.30 – 17.15 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. Borror. 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 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:

<b>Assessment</b>	<b>Weight</b>	<b>Date</b>
<b>Midterm I</b>	25%	<b>19.11.2025</b> (Tentatively)
<b>Midterm II</b>	25%	<b>24.12.2025</b> (Tentatively)
<b>Final Exam</b>	50%	<b>14.01.2026</b> (Tentatively)