



IYTE CIVIL ENGINEERING DEPARTMENT
CE 372 ENGINEERING HYDROLOGY
2025-2026 SPRING SEMESTER

Instructor

Prof. Dr. Gökmen Tayfur gokmentayfur@iyte.edu.tr

Assistants

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Objectives

Hydrologic analysis in water resources: Precipitation, streamflow, and hydrograph analysis. Hydrologic flood routing. Statistical analysis in water resources. Groundwater hydrology. Engineering applications.

Reference Books

Usul, N., Engineering Hydrology, 3rd Edition, METU Press, Ankara, Turkey, 2013.

McCuen, Richard H. Hydrologic Analysis and Design, Prentice Hall, 2004

Chow, V.T., Maidment, D.R., and Mays, L.W., Applied Hydrology, McGraw Hill, 1988.

Linsley, R.K., Kohler, M. A., and Paulhus, J.Lh., Hydrology for Engineers, Mc Graw Hill, 1988.

Viessman, Warren and Lewis, G.L., Introduction to Hydrology, Prentice Hall, 2003

Tayfur, G. ve Şen, Z. Yeraltısuyu Hidroloji ve Hidroliđi, Su Vakfı, İstanbul. 2018.

Temporary Course Outline

- Introduction
- Precipitation
- Evaporation
- Infiltration
- Streamflow
- Basin
- Hydrograph Analysis
- Flood Routing
- Groundwater
- Statistical Methods in Hydrology
- Reservoirs

Grading:

Assignments: 12%

Quizzes: 16%

Midterm exam: 32%

Final Exam: 40%

Announcements and lecture notes can be followed by visiting LMS&Teams