Department of Civil Engineering

Course Name:

Stochastic Hydrology

Course Number: 20-660	**Credit:** 3
Program: Graduate	**Course Type:** General Selective
Prerequisite: -	**Corequisite:** -

Course Description (Objectives):

The course "Stochastic Hydrology" aims to equip students with a deep understanding of probability, stochastic processes, and statistical methods, focusing on their applications in hydrology. It emphasizes time series analysis, risk assessment, and data analysis techniques for hydrological studies.

Course Content (outline):

- Chapter 1: Probability
- Chapter 2: Main probability distributions in hydrology
- Chapter 3: Stochastic
- Chapter 4: Time series analysis
- Chapter 5: Data analysis

References:

- "Random Functions and Hydrology", R. L. Bras.
- "Statistical Methods in the Atmospheric Sciences", D.S Wilks.
- "Statistical Methods in Hydrology", C. T. Haan.