



Course Name:

Engineering Hydrology

Course Number: 20-629	Credit: 2
Program: Undergraduate	Course Type: Technical Required
Prerequisite: Statistics and Probability in Civil Engineering	Corequisite: -

Course Description (Objectives):

The main goal of this course is to provide a broad understanding of water cycle and water balance. In this course students learn about water cycle and its interaction with energy budget. All hydro-meteorological variables used in the water budget (precipitation, evapotranspiration, infiltration, groundwater and runoff) will be defined.

Course Content (outline):

- Chapter 1: Introduction
- Chapter 2: Precipitation
- Chapter 3: Evaporation and Transpiration (Evapotranspiration)
- Chapter 4: Infiltration
- Chapter 5: Groundwater
- Chapter 6: Surface Runoff

References:

- Hydrology: An Introduction to Hydrologic Science, R. L. Bras
- Hydrology: A Science for Engineers. A. Musy, B. Hingray, & C. Picouet
- Applied Hydrology, V. T. Chow, D. R. Maidment, L. W. Mays