

CE462A: Hydraulic and Hydrologic Design

3-1-0-0 [11]

Course Contents:

Synthetic design storms & Estimation of peak discharge, Urban storm drainage design, Culvert design, Detention storage design, Watershed modeling, Flood frequency analysis and hydrologic design under uncertainty; Design of water distribution network, Analysis and design of rigid boundary channels; Tractive-force concepts in channel design, Design of canal head works, distribution works, and cross drainage works; Design of gravity dams, spillways, and energy dissipators.