

WATER SUPPLY ENGINEERING

Module I: Different types of supply and treatment, Water requirements, Surface Water and Ground water.

Module II: Water quality and drinking water standards, Determination of reservoir capacity, Transportation and distribution of water. Pumping and design considerations for pumps, Water treatment systems,

Module III: Distribution system design and analysis, Optimization of pipe network systems, Distribution reservoirs and service storage,

Module IV: Physicochemical processes, Sedimentation, Coagulation, Flocculation, Granular media filtration Disinfection, Water softening, Adsorption and ion exchange processes.

Books for reference:

1. Water Supply Engineering, S.K. Garg, Khana Publishers.
2. Water Supply Engineering, B.C. Punmia, Laxmi Publications.
3. Environmental Engineering: A Design Approach, Sincero & Sincero, PHI.
4. Water and Wastewater Technology, Hammer & Hammer, PHL