

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. SEMESTER: III

CIVIL ENGINEERING (WATER RESOURCES MANAGEMENT)

Subject Name: **Water Supply and Drainage**

Sr. No.	Course Content
1.	Planning of water supply scheme, Feasibility study.
2.	Intake, Radial collector well, Storage sump and service reservoirs, Pumps and its selection.
3.	Measurement of flow, Appurtenances, Losses in pipes, Analysis of pipe network.
4.	Prediction of flood for urban storm drainage, Rational method, Hydraulics of flow in open channel, Hydraulic design of storm sewer.

Reference Books:

1. Manual of Water Supply and Treatment, CPHEEO, Ministry of Urban Development, New Delhi.
2. Hydrosystem Engineering and Management, Mays, L.W. and Tung, Y.K., McGraw Hill New York.
3. Applied Hydrology, Chow, V.T, Maidment, D.R. and Mays, L.W., McGraw Hill.
4. Computer Assisted Floodplain Hydrology and Hydraulics, Hoggan, D.H., McGraw hill New York.