

**CE412A: Water Supply and Wastewater Disposal Systems****3-0-2-0 [11]****Course Contents:**

Introduction; need for water and wastewater treatment, associated environmental laws, drinking water and wastewater discharge standards, water reuse and recycling concepts; Water Treatment Water sources, Water quantity, process description of conventional water treatment; design of individual unit processes, water treatment plant layout and related issues; Water Distribution Treated water storage structures; Design of water distribution systems; Wastewater Collection Description and design of wastewater collection system; Wastewater Treatment Quantity and quality of wastewater, process description for conventional wastewater treatment; design of individual unit processes, wastewater treatment plant layout and related issues; Rural water supply and sanitation; Water sources, treatment and distribution systems; Rural sanitation, surface drains, septic tank, onsite sanitation systems etc.