CIV4104 Public Health Engineering II

Hours per Semester				Weighted Total Mark	Weighted Exam Mark	Weighted Continuous Assessment Mark	Credit units
LH	PH	TH	CH	WTM	WEM	WCM	CU
45	30	0	60	100	60	40	4

Course Description

This course introduces concepts of planning and design of water and wastewater treatment systems, design concepts and calculations of water transmission and distribution systems. It also covers wastewater conveyance systems and creates awareness of environmental aspects of water supply and wastewater management projects.

Objectives

- introduce concepts in the planning and design of water and wastewater treatment systems
- introduce the design criteria for water supply and wastewater treatment systems and thereafter the design of unit processes in conventional water and wastewater treatment systems
- introduce the design concepts and calculations of water transmission and distribution systems including net work configurations, balancing of distribution systems and pumping systems as well as detailed design of the systems
- enable the students to understand the design of wastewater conveyance systems
- enable the students to be aware of environmental aspects of water and wastewater systems and use them to conduct environmental impact assessments for water supply and wastewater projects