

2017학년도 2학기 강의정보

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교과목명	하폐수공학및설계		교강사명		배성준		
학점	3		수강대상 학년		2		
교재명	Wastewater Engineering (Treatment and Reuse)	구 분	주교재	저 자	METCALF & EDDY	출 판 사	McGraw-Hil I Education
강의목표	스스로 학습활동에 대한 원칙과 계획을 세우고 체계적으로 실천할 수 있다.						
교과목 해설	<p>강의 설명: 하·폐수처리의 총론적 기본개념 (하폐수 처리 기본 공정, 하폐수 성상과 특성, 오염처리수의 재활용 등)과 하폐수처리에 이용되는 물리적 단위조작, 화학적 단위공정, 생물학적 처리 공정들의 기본원리 이해 및 자기화 능력, 물리·화학·생물학적 실제처리시설의 설계 및 운전·유지관리 능력을 함양한다. 강의목표 [1] 하폐수공학의 총론적 지식과 기본개념을 이해한다. [2] 공학적 감각과 자질을 높여 기술의 자기화 도모한다. [3] 처리시설의 기본적인 설계 및 운전, 유지관리 기술을 함양한다.</p>						
강의진행 방법	<p>1. Course description * This course deals with discussion of wastewater quality constituents and introduction of the design and operation of wastewater treatment process. Especially, physical/chemical unit operations, fundamentals of biological treatment, specific design and operation of wastewater treatment process will be discussed during the class. * Class hours: Wend. 10:00-12:00 (B567), Thur. 13:00-15:00 (B567) 2. Course Objectives: * Develop fundamental skills to understand, describe, and design common water unit processes in wastewater treatment. * Introduce fundamentals of biological treatment and understand the mechanisms of biological wastewater treatment. * Improve students' scientific and engineering minds and communication skills which are needed in the field of environmental engineering. * To discuss current status of federal and state legislation which governs the installation, expansion, and upgrading of wastewater engineering projects. 3. Course Methods: * Lecture Style - review previous materials - learn new materials - summarize new materials * Student responsibilities for lecture - help control pace of class by questions - review notes before class to make good use initial review time - be prepared to ask questions about homework assignments in class or immediately after class * Homework ground rules - purposes are to fully understand the concepts of wastewater engineering and to develop the ability of engineering design for wastewater treatment plant. - discussion is encouraged. - copying is scholastic dishonesty. - homework can be submitted after dead line but there is no assurance that it will be given full credit (- 15% per every week).</p>						