COURSE DETAIL

BIOLOGICAL TREATMENT PROCESS
Country Taiwan
Host Institution National Taiwan University
Program(s) National Taiwan University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Environmental Studies
UCEAP Course Number 132
UCEAP Course Suffix
UCEAP Official Title BIOLOGICAL TREATMENT PROCESS
UCEAP Transcript Title TREATMENT PROCESS
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course aims to provide understanding of the latest development in biological treatment processes. The course covers the following:
1. Introduction
2. Fundamentals of Microbiology
3. Biological Reaction and Reaction Kinetics
4. Reactor Design (1) Kinetic Model Development(2) Evaluation of Biokinetic Constants
5. Aerobic Suspend-Growth Process (1) Activated Sludge Process (2) Oxidation Ditch (3) Sequencing Batch Reactor
7. Aerobic Attached-Growth Treatment Methods
8. Anaerobic Treatment(1) Introduction(2) Anaerobic Sludge Digestion(3) Anaerobic Wastewater Treatment
9. Nitrogen and Phosphorous Removal Method

Language(s) of Instruction
English

Host Institution Course Number
EnvE7032

Host Institution Course Title
BIOLOGICAL TREATMENT PROCESS

Host Institution Course Details
http://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=541%20M1050&cl...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Environmental Engineering

Course Last Reviewed
2022-2023

Print