

FOLENS Syllabus

Subject Title: Green Technology Practice 2013							
Subject Category:	Domestic Training	Department	FOLENS	Credit	1	Code	n/a
Semester	First/Spring	Day(s)/Period(s)	Described in "Course description"				
Class Format				Location			
Instructor	Kenichi Yoneda, Associate Professor						
Office	FOLENS Office Room 1401B, Center for Innovation and Intellectual Property, Koganei Campus			Email	k_yoneda@cc.tuat.ac.jp (Kenichi Yoneda)		

■ Goal& Outline

I will take the waste management that is one of the environmental problems in Asian countries as this practice topic and educate the students to be a FOLENS through waste management technology according 3 items below,

1. Studying about waste management of Japan and Thailand
2. Discussion about the landfill of Asian countries and investigation into landfill in Japan
3. Column test of PRB (Permeable Reactive Barrier) as one of the countermeasure for landfill in Asia

■ Course description

Day 1; May 23 (Thursday) 13:00-14:30

L1211, Building 12, Koganei Campus

Orientation (Guidance/ Grouping of the students) and lecture about the waste management of Japan and my experienced waste management in Thailand

Day 2; May 30 (Thursday) 13:00-14:30

L1211, Building 12, Koganei Campus

Lecture about the trip to the CESS (Center of Environment Science in Saitama), sampling the leachate/soil and the column test.

Day 3; June 6 (Thursday) 9:00-17:00

Going to CESS (Center of Environment Science in Saitama) and discussion with CESS staffs about the landfill of the Asian countries, then sampling the leachate/soil from landfill in Yogi-town, Saitama

Day 4; June 13 (Thursday) 13:00 – 18:00

Room 103, Building 4, Koganei Campus

Experiment with the column of soil for leachate at TUAT Laboratory

Day 5; June 20 (Thursday) 13:00 – 17:00

Room 103, Building 4, Koganei Campus

Analysis of the water quality of the column inlet and outlet at TUAT Laboratory

Day 6; June 27 (Thursday) 13:00 – 16:15

Building 4, Koganei Campus

Evaluation of data and designing the PRB for landfill in Thailand (Report must be submitted about their experiment)

■ Prerequisites

General knowledge of environment problem in Japan

Knowledge about waste management in Japan

■ Evaluation standards

Attendance (must day 3 and 4 and minimum 4 days from 6 days), and Report

■ Message from instructor(s)

■ Course keywords

Environmental problem, Environmental issue, Waste, Waste management, MSW (Municipal Waste Management)

■ Last Updated

2013.3.16