

Course Information	
Course title	Particulate Pollutants Control Theory
Semester	114-2
Designated for	COLLEGE OF ENGINEERING GRADUATE INSTITUTE OF ENVIRONMENTAL ENGINEERING
Instructor	TA-CHIH HSIAO
Curriculum Number	EnvE7019
Curriculum Identity Number	541EM0450
Class	
Credits	3.0
Full/Half Yr.	Half
Required/ Elective	Elective
Time	Friday 2,3,4(9:10~12:10)
Remarks	The upper limit of the number of students: 30.
Course introduction video	
Table of Core Capabilities and Curriculum Planning	Table of Core Capabilities and Curriculum Planning
Course Syllabus	
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Course Description	This course teaches how to make basic calculations involved in air pollution control engineering. Specifically, it has to do with the cleaning of gases by the removal of particulate matters. It is devoted to presenting basic (scientific) principles and basic (engineering) calculations involved in the design of particulate collection systems.
Course Objective	The first half part of this course will cover the basic scientific principles. This includes the methods of describing particulate systems, an overview of the fundamental concepts of collection, and the physics of particle behavior. The second half will deal with the modeling processes of cyclone, filter, electrostatic precipitation, and scrubbers. Students shall learn how to build models for other devices that may be developed.

 Course Requirement		
Student Workload (Expected weekly study hours before and/or after class)		
Office Hours		
Designated reading		
References	Crawford, M., "Air Pollution Control Theory", McGraw-Hill, Inc., New York, NY, 1976. Cooper, C. D. and F. C. Alley, "Air Pollution Control: A Design Approach", 2nd ed., Waveland Press, Inc., Prospect Heights, Illinois, 1994.	
Grading	1. NTU has not set an upper limit on the percentage of A+ grades. 2. NTU uses a letter grade system for assessment. The grade percentage ranges and the single-subject grade conversion table in the NATIONAL TAIWAN UNIVERSITY Regulations Governing Academic Grading are for reference only. Instructors may adjust the percentage ranges according to the grade definitions. For more information, see the Assessment for Learning Section.	
Progress		
Week	Date	Topic
No data		