

## View Syllabus Information

Even after classes have commenced, course descriptions and online syllabus information may be subject to change according to the size of each class and the students' comprehension level.

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Course Information			
Year	2021	School	School of Creative Science and Engineering
Course Title	Environmental Geotechnics IPSE Course		
Instructor	KOMINE, Hideo / SAKANAKURA, Hirofumi / WANG, Hailong		
Term/Day/Period	spring semester Tues.4		
Category	Elective Compulsory Subjects	Eligible Year	3rd year and above Credits 2
Classroom		Campus	Nishi-Waseda (Former: Okubo)
Course Key	27GD033011	Course Class Code	01
Main Language	English		
Class Modality Categories	Realtime Streaming		
Course Code	CSTX34ZL		
First Academic disciplines	Civil Engineering		
Second Academic disciplines	Civil Engineering		
Third Academic disciplines	Geotechnical Engineering		
Level	Advanced, practical and specialized	Types of lesson	Lecture

## Syllabus Information

Latest Update: 2021/02/08 10:32:45

**Course Outline** As the important issues which environmental geotechnics should tackle, the lectures will be given about soil contamination, waste landfills, recycled materials, and geological isolation of radioactive waste, all relating their environmental safety, the testing methods, and geotechnical engineering for treating, making countermeasure and disposing them.  
For deeper understanding, homework of investigation will be given regarding specific issues. The results will be requested to make oral presentation during the class.  
From the above issues, we will educate that the students can consider and solve any problems concerning environmental geotechnics by themselves.

The course will be held generally by online real time form.

**Course link:**

<https://zoom.us/j/9924625591?pwd=bmhYSmNLTEQ1U21BNzRoNkpGdXJFQT09>

ID: 992 4625 5591

Password: 684678

**Objectives** Understand and master environmental geotechnics with regard to the current status and issues, countermeasure technologies, and evaluation methods.

Course Schedule	Lecture	Date	Topic
	Lecture 1	April 6, 2021	Guidance on this lecture and selection of investigation theme for Active Learning (Komine, Sakanakura, Wang)
	Lecture 2	April 13, 2021	Overview and history of Environmental Geotechnics (Komine, Wang)
	Lecture 3	April 20, 2021	Introduction on possible themes for active learning (Komine, Wang)
	Lecture 4	April 27, 2021	Fukushima Daiichi NPS and Geotechnical Engineering including Environmental Geotechnics (Komine, Wang)
	Lecture 5	May 11, 2021	Overview and perspective of radioactive waste disposal and radioactive contaminated soil storage (Komine, Wang)
	Lecture 6	May 18, 2021	Risk of soil contamination (Sakanakura, Wang)
	Lecture 7	May 25, 2021	Characteristics of Contaminants (Sakanakura, Wang)
	Lecture 8	June 1, 2021	Environmental standard and regulations (Sakanakura, Wang)
	Lecture 9	June 8, 2021	Behavior of contaminants (Sakanakura, Wang)
	Lecture 10	June 15, 2021	Countermeasures (Sakanakura, Wang)
	Lecture 11	June 22, 2021	Geoenvironmental issues in disaster (Sakanakura, Wang)
	Lecture 12	June 29, 2021	Waste landfill (Sakanakura, Wang)
	Lecture 13	July 6, 2021	Testing Methods for Environmental Safety (Sakanakura, Wang)

Lecture 14	July 13, 2021	Presentation for active learning (Komine, Sakanakura, Wang)
Lecture 15	July 20, 2021	Presentation for active learning (Komine, Sakanakura, Wang)

**Textbooks** No textbook.  
Some materials will be posted on a web site.  
Some of them will be distributed in the class.  
Information on the web site will be introduced in the first lecture.

Evaluation	Rate	Evaluation Criteria
Papers:	50%	A report is imposed in the first half and the second half of the lecture.
Others:	50%	Active Learning will be introduced; investigation will be assigned regarding specific issues, and the results will be requested to make oral presentation.

**Note / URL** The Contact Professor:  
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