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 Engineering B IPSE Course Instructor SAKAKIBARA, yutaka/SAGAWA, Tatsuyuki Term/Day/Period spring semester Thur.4 Category Elective Compulsory Subjects Eligible Year 2nd year and above Credits 2 Classroom 53-201 Campus Nishi-Waseda(Former: Okubo) Course Key 27GD032012 Course Class Code 01 Main Language English Class Modality Categories On-demand (Schedule Restrictions) Course Code CSTX21ZL First Academic Civil Engineering disciplines Second Academic Civil Engineering disciplines Third Academic Civi and Environmental Engineering disciplines Level Intermediate, developmental and applicative Types of lesson Lecture

Syllabus Information

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Course Outline	This course will introduce the basic concepts and technologies on the remote sensing of water resources, drinking water supply and municipal wastewater treatment system. The course is a hybrid (face-to-face and online) class. Please check the details in Moodle.
Objectives	to gain a basic understanding of the following topics; 1) principle of remote sensing with fundamental skill to acquire data from satellite, 2) design of water infrastractures (i.e. drinking water supply and municipal wastewater treatment system), 3) principle and mechanism of water treatement processes, 4) conservation and management of fresh water body.
before/after course of study	Short test will be conducted to check students' understanding llevels. Moreover, assignments will be given to deepen students' understandings of important topics in the class.
Course Schedule	 Week 1 (4/8): Introduction (Drs. Sagawa and Sakakibara) Please bring your PC in class on the following remote sensing. Week 2 (4/15): Basics of Remote Sensing (Dr. Sagawa) Week 3 (4/22): Aquatic Remote Sensing (Dr. Sagawa) Week 4 (4/29): Water Resources Management (Dr. Sagawa) Week 5 (5/6): Exercise of Remote Sensing (1) (Dr. Sagawa) Week 6 (5/13): Exercise of Remote Sensing (2) (Dr. Sagawa) Week 7 (5/20): Drinking Water Supply 1 (Dr. Sakakibara) Week 8 (5/27): Drinking Water Supply 2 (Dr. Sakakibara) Week 8 (5/27): Drinking Water Supply 3 (Dr. Sakakibara) Week 10 (6/10): Presentation and Discussion on Assignment (B) Week 11 (6/17): Municipal Wastewater Treatment System 1(Dr. Sakakibara) Week 13 (7/1): Municipal Wastewater Treatment System 3 (Dr. Sakakibara) Week 14 (7/8): Presentation and discussion on assignment (C) Week 15 (7/15): Final Exam and Commentary on Suggested Answer (Drs. Sagawa and Sakakibara)
Textbooks	Lecture materials will be distributed in class. Personal computer wll be used in the class on Remote Sensing.
Reference	Mackenzie L. Davis, Susan J. Masten, "Principles of Environmental Engineering and Science", 3rd, ISBN: 978-1-259-06047-2
Evaluation	1) Final examinations (50%) 2) Attendance (# of attendance should be more than 10) 3) Short tests and assignment (50%)
Note / URL	

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