



Created Date	2021-01-11 14:01:59	Last-Modified	2021-01-11 14:02:35
Course Title	FOUNDATION ENGINEERING	Credit	3
Location	Pre-recorded lecture/EngHD403	Time	Tue8/Wed6,7
Instructor	Lee, Jun Hwan	Department	공과대학 건설환경공학과
Office		Telephone	
e-mail & Office Hour			

Core Competencies	공학기초능력	수리공학적사고	도구활용능력
	50	30	20
Target Students	Undergraduate senior students		
Course Description & Goals	This class is designed for students to understand how basic knowledge of soil mechanics is applied to design of foundation structures. Various foundations commonly adopted and addressed in the field of geotechnical engineering are described with various approach for design methodology.		
Prerequisite	Undergraduate soil mechanics class		
Course Requirements	Lecture and discussion		
Grading Policy(Absolute)	Mid term exam 40% Final exam 40% HW, Project 20%		
Texts & References			
Instructor's Profile	Professor in School of Civil and Environmental Engineering		
TA's Name & Contact Information	Jonhyuk Yun		
Syllabus in English	Given in detail		

Week	Period	Weekly Topic & Contents	Course Material Range & Assignments	Reference
1	2021-03-02 2021-03-08	Soil mechanics and site characterization	주제구성, 팀구성 Development of new pile technology Explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.	(3.2.) Spring semester classes begin (3.5. - 3.9.) Course add and drop period
2	2021-03-09 2021-03-15	Deep foundation: axially loaded case	주제구성, 팀구성 Development of new pile technology Explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.	(3.5. - 3.9.) Course add and drop period
3	2021-03-16 2021-03-22	Axial load capacity	주제구성, 팀구성 Development of	

			<p>new pile technology</p> <p>Explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.</p>	
4	2021-03-23 2021-03-29	Base resistance	<p>Explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.</p>	
5	2021-03-30 2021-04-05	Shaft resistance	<p>Explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.</p>	
6	2021-04-06 2021-04-12	Group piles	<p>Explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.</p>	(4.7.) First third of the semester ends
7	2021-04-13 2021-04-19	Presentation	<p>Explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.</p>	(4.19. - 4.23.) Midterm Examinations
8	2021-04-20 2021-04-26	mid term exam	<p>Explore and summarize the types and methods of deep foundation (piles). Develop a new methodology</p>	(4.19. - 4.23.) Midterm Examinations (4.26. - 4.28.) Course withdrawal period

			for pile foundation in whatever aspects including material, installation method and applications.	
9	2021-04-27 2021-05-03	Deep foundation: lateral load capacity	explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.	(4.26. - 4.28.) Course withdrawal period
10	2021-05-04 2021-05-10	Drilled shaft	explore and summarize the types and methods of deep foundation (piles). Develop a new methodology for pile foundation in whatever aspects including material, installation method and applications.	(5.5.) Children's Day
11	2021-05-11 2021-05-17	Soft soil engineering	최종 보고서 제출 최종발표	(5.17.) Second third of the semester ends
12	2021-05-18 2021-05-24	Ground improvement		(5.19.) Buddha's Birthday
13	2021-05-25 2021-05-31	Other method for ground improvement		
14	2021-06-01 2021-06-07	Excavation		(6.6.) Memorial Day (6.7. - 6.18.) Self-study and Final Examinations
15	2021-06-08 2021-06-14	Discussion		(6.7. - 6.18.) Self-study and Final Examinations
16	2021-06-15 2021-06-18	Final exam		(6.7. - 6.18.) Self-study and Final Examinations

* Changes in Management of Academic Semester

During the midterm examinations (2021.4.19. - 4.23.) and final examinations (2021.6.7. - 6.8.) period, classes or self-study should be continued unless there is an exam scheduled during the week.

* According to the University regulation section 57-2, students with disabilities can request special support related to attendance, lectures, assignments, or exams by contacting the course professor at the beginning of semester. Upon request, students can receive such support from the course professor or from the Center for Students with Disabilities(OSD). The following are examples of types of support available in the lectures, assignments, and exams:

(However, actual support may vary depending on the course.)

[Lecture]

- Visual Impairment: alternative, braille, enlarged reading materials, note-taker
- Physical Impairment: alternative reading materials, access to classroom, note-taker, assigned seat
- Hearing Impairment: note-taker/stenographer, recording lecture
- Intellectual Disability/Autism: note-taker, study mentor

[Assignments and Exam]

- Visual, Physical, Hearing Impairment: extra days for submission, alternative type of assignment, extended exam time, alternative type of exam, arranging separate exam room, and proctors, note-taker
- Intellectual Disability/Autism: personalized assignments, alternative type of evaluation

