

Course No.	M1586.001700	Lecture No.	001	Course Title (Subtitle)	High Performance Concrete Engineering (null)	Credit	3	
Representative Instructor	Name	Moon Juhyuk (post : Assistant Professor)		Homepage				
	E-mail	juhyukmoon@snu.ac.kr		Phone No.				
	Interview Time/Place : Every Wednesday at 4pm / #35-412							
Attachment	(Korean)							
	(English)							
Prerequisite Course	없음 (None)							
*1.Purpose of Course	Concrete is a versatile manufactured material. Among different types of concrete products, this lecture will focus on various aspects of high performance concrete, which is actively being implemented in modern infrastructure, including chemistry of cement and concrete, manufacturing technology, material characteristics, and relevant design codes. There will be two exams (midterm and final), one project, and four homework assignments. The lecture is designed for graduate students who do not have background on concrete materials.							
*2.Materials and Reference	Materials-High-Performance Concrete-Aitcin-Taylor & Francis-1998, Auxiliary Materials-Concrete: Microstructure, Properties, and Materials-Metha & Monteiro-McGrawHill-1993							
*3.Evaluation Method	Attendance	Task	Medium	Final	Random Evaluation	Attitude	Other	Total
	10	30	20	40	0	0	0	100
	Attendance Policy		Students who are absent for over 1/3 of the class will receive a grade of 'F' or 'U' for the course. (Exceptions can be made when the cause of absence is deemed unavoidable by the course instructor.)					
	Remark of Others							
*4.Lecture Plan	Week#1: Introduction of high performance concrete (HPC) Week#2: Chemistry of cement and concrete Week#3: Chemistry of HPC Week#4: Production and actual examples of HPC Week#5: Material characteristics Week#6: Durability characteristics Week#7: Crack propagation theory Week#8: Midterm exam (Oct 25th) Week#9: Superplasticizer technology Week#10: Material design code of HPC Week#11: Structural design code of HPC_1 Week#12: Structural design code of HPC_2 Week#13: Next generation of HPC_1 Week#14: Next generation of HPC_2 Week#15: Final exam (Dec 13th)							
5.References to Course Registration	Welcome graduate students who don't have background on concrete materials.							

6. Services for Students with Disabilities	Taking a Class	<ul style="list-style-type: none"> ○ Visual Impairment: Make textbooks(digital textbook, braille textbook, enlarged textbook etc.), Allow note takers ○ Physical Disability: Make textbooks (digital textbook), Allow note takers and assistants ○ Hearing Impairment: Allow note takers and translators, Allow lecture recording ○ Health Impairment: Excuse absence due to health problems, Allow note takers ○ Learning Disability: Allow note takers ○ Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors
	Assignments & Evaluation	<ul style="list-style-type: none"> ○ Visual Impairment / Physical Disability / Hearing Impairment / Health Impairment / Learning Disability: Extend assignment deadlines, Offer alternate assignment submission and response method, Extend testing period, Offer alternate testing method, Offer different testing room ○ Intellectual Disability / Autism Spectrum Disorder: Offer individualized assignments and alternative evaluations
	Others	<p>Students who take this course can get appropriate level of support service including the support listed above depending on the students' individual characteristics and needs through consultation with professors and the Support Center for Students with Disabilities. If you have any questions concerning support service for students with disabilities you can contact Professor Moon Juhuk() or Support Center for Students with Disabilities (02-880-8787).</p>