Course No.	459.600		Lecture No.		001		Course Title (Subtitle)		Topics in Petroleum and Gas Engine (Optimization of Reservoir Managen			Credit	3		
D	Name	Но	onyoung	Jeong	g (po:	ST '	ssistant rofessor	)	Homepage	)					
Representative Instructor	E-mail		hoony	oonyoung.jeong@snu.ac.kr					Phone No.	02-880-7235					
isti dotoi	Interview Time/Place :														
Attachment	(Korean)														
	(English)														
Prerequisite Course															
*1.Purpose of Course	injectors ar	nd pi	roducers, a	and ho	w to op	oerate	them. T	his c	ks are signific course covers ment of subsu	optimization	on technic	ues for			
*2.Materials and Reference															
Reference	Attendan	се	Task	Med	dium	Fi	inal	Ranc	dom Evaluation	Attitude	Other	-	Total		
*3.Evaluation Method		5	35		0		35		20	5		0	100		
	Attendance Policy		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	Introduction Gradient-based methods Steepest Gradient Method Conjugate Gradient Method Newton Methods Constrained Optimization Numerical Approximation of Derivatives Optimality Conditions and Convex Problem Robust Optimization and Stochastic Gradient Inverse Problems Optimization of Well Operating Conditions														
5.References to Course Registration								latlab	1						
Registration	I						Reservoi	ı 2IM	uidliUi l						

	Taking a Class	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
6. Services for Students with Disabilities	Assignment s & Evaluation	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	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 () or Support Center for Students with Disabilities (02-880-8787).
7.Guidelines for COVID-19 confirmed cases during face-to-fac e class	Class	Switch to non-face-to-face classes when there are confirmed cases.  According to the guidance of SNU Health Service Center/administrative office, if necessary, the test will be conducted, and the class will be held non-face-to-face for 2 weeks.  Even if a confirmed case occurs in a classroom or building where face-to-face classes are being held, the classes will be switched to non-face-to-face during the disinfection period according to the guidance of the administrative office.
	Students	Confirmed cases, suspected cases, and patients under investigation must act in accordance with the guidelines of the Korea Disease Control and Prevention Agency and also submit for Application for Recognition of Attendance of the faculty to receive recognition of attendance during self-quarantine period.  Student must attend non-face-to-face classes if possible.