강 의 계 획 서(Syllabus)

	[1] 3	기본 정보(Basic Informa	ation)			
■ 강의 정보(Course Information)						
교과목명 (Course Title)	고급전자: (Advanc Electromagi	ed (Cou	t의유형 Irse Type)	이론		
	[2] 학습 목표	/성과(Learning Objectiv	ves/Outcomes)			
∎ 과목 설명(Course	Description)					
heory: vector algebra and	d vector calculus including of static electric and magn tric materials.	electromagnetics. The course the concepts of vector ope etic fields and electric poter	rators (gradient, divergence	, and curl), and the		
		the concert and mothematic	a of observed abottomorph	tic theory		
he goal of this course is	s to introduce students to	the concept and mathematic	s of classical electromagne	etic theory		
■ 학습 성과(Learning	g Outcomes)					
)n completion of the cou	irse students would be ab	le to:				
learn a basic knowledg quations so on formulate potential prob explicitly explain the sta	plems within electrostatics,	theory invovling Coulomb's magnetostatics, and stationa nena in nature and in engin	ary current distributions in I			
learn a basic knowledg quations so on formulate potential prob explicitly explain the sta	e of static electromagnetic plems within electrostatics, atic electromagentic phenor I confident to electromagne	theory invovling Coulomb's magnetostatics, and stationa nena in nature and in engin	ary current distributions in I eering to people			
- learn a basic knowledg equations so on - formulate potential prob - explicitly explain the sta - be at least familiar and	e of static electromagnetic plems within electrostatics, atic electromagentic phenor I confident to electromagne	theory invovling Coulomb's magnetostatics, and stationa nena in nature and in engin etics 의 진행 정보(Course M	ary current distributions in I eering to people			
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[4] 수업 일정(Course Schedule)						
차시	강사명	수업주제 및 내용	제출 과제	추가 설명		
1	Woo June Choi	Chap. 1 Introduction 1.1-1.3 Electromagnetic Model, SI units				
2	Woo June Choi	Chap. 2 Vector Analysis 2.1-2.4 Orthogonal Coordinate systems				
3	Woo June Choi	2.5-2.8 Vector Integral, Divergence, Curl				
4	Woo June Choi	2.9-2.11 Stokes's Theorem, Helmholtz's Theorem				
5	Woo June Choi	Chap 3. Static Electric Field 3.1-3.5 Coulomb's Law, Gauss's Law, Electric Potential				
6	Woo June Choi	3.6-3.8 Conductors, Dielectrics, Electric Flux Density				
7	Woo June Choi	3.9-3.11 Boundary Conditions, Capacitor, Electrostatic Energy and Forces				
8	Woo June Choi	Chap. 4 Solution of Electrostatic Problems				
9	Woo June Choi	Chap. 5 Steady Electric Currents				
10	Woo June Choi	Chap 6 Static Magnetic Fields 6.1-6.3 Magnetostatics and Magnetic Potential				

[5] 수강생 학습 안내 사항