2015년도 1학기 자동제어 수업계획서

교과목명 Course Title	(국문)	자동제어		(영문)	Automatic Control
담당교수(소속) Lecturer	이학성 (전	자정보통신공학과)		선호/구분/학경 urse No. /)	적 004475/전공필수/3학점
전화(연구실/HP) Contact No.			강의	시간/강의실 s Hour/Venue	Poom 109(Gwang Gae to Bullding) Tue/Thu 15:00 ~ 16:30
선수과목 (Course Prerequisite)				수강대상 get Student)	junior in Electronics Engineerin
E-mail (E-mail Address)			연구실/Office Hour (Office/Office Hour)		Boom 920 (Choong Moo Building) Lie/Thu 13:00 ~ 15:00
교과목표 (Objectives)	models. Topics include	e input/output model	of linear	system, tra	linear transfer function system nsfer function, time domain quency response and bode plot.
이번 강의의 개선을 위한 개선계획 CQI (Continuous Quality Improvement Plan)					
교 재 참고도서 (Text book & References)	Main Text : Feedback Control of Dynamic Systems 6th ed., Gene F. Franklin et. al. Reference : Automatic Control System 9th ed., Benjamin C. Kuo and F. Golnaraghi Control System Engineering 3rd ed., Norman S. Nise				
과제도서 (Assignment book)					
수업방법 (Lecture Methods)	traditional wi	th OHP (not "class i	n English ["]	')	
과제물 (Assignment)					
독서물 (Reading Materials)					
학업성취 평가방법 (Course Grading)		간고사(%) : 30, 기말. 30%, final exam :			ㅏ및과제(%) : 20, 출석(%) : 10, participation : 10%
기 타 (Etc.)					

(Etc.)

주별 교과내용 (교과목명 : 자동제어)

주 (Week)	교 수 내 용 (Course Contents)	수업형태 및 활용기자재 (Etc.)	비고
1	Introduction to Automatic Control	(2:0.)	
2	Dynamics of Electrical Circuit Dynamics of Mechanical Systems		
3	Review of Laplace Transform		
4	Transfer Function System Modeling Diagrams		
5	Response versus Pole Location		
6	Time Domain Specification		
7	Stability		
8	Midterm Exam		

온라인강의실:블랙보드(https://blackboard.sejc

주 (Week)	교 수 내 용 (Course Contents)	수업형태 및 활용기자재 (Etc.)	비고
9	A Case Study of Speed Control		
10	Steady state Tracking and System Type		
11	PID Control		
12	Root Locus Design Method		
13	A Design Example		
	Frequency Response Neutral Stability		
15	Stability Margin Bode s Gain Phase Relationship		
16	Final Exam		

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추 가 안내사항1 (Additional Guide1)		
추 가 안내사항2 (Additional Guide2)		