강 의 계 획 서

◪ 강의정보

년도/학기	2015-1학기		학수번호	EEE3024 / 41
교과목명	제어공학기초		교강사명	국태용
수강대상대학	College of Information and Communication Engineering			
수업시간	월[AA]09:00-10:15,수[AA]09:00-10:15			
강의실	[22110] 제1공학관22동 1층 첨단강의실			
개요/진행	The course introduces mathematical modeling and analysis of automatic control systems, Topics included are vetors and matrices, transfer functions of linear systems, feedack control and its properties, state equation and state space modeling, stability of linear time invariant systems, etc, Self-directed students can use MATLAB and SIMULINK(or CEMTOOL and SIMTOOL) to solve examples and do practical excersices,			

◪ 내용

3 월	-Introduction to control system -Laplace transforms -Block diagram and transfer function -Feedback systems and signal flow graph
4 월	-State space model -Realization of transfer functions -Controllability and observability -State feedback control systems
5 월	-Mathematical modeling -Sensors as feedback elements -Linearlization techniques -Stability of linear systems
6 월	-Stability check and performance of control systems -Second order systems -Effects of adding poles and zeros in control systems

◪ 참고문헌

도서구분	도서명	저자	발행년도	출판사
교재	Automatic control systems : Farid Golnaraghi, Benjamin C, Kuo	Kuo, Benjamin C,, 1930-	2010	Wiley