Syllabus

Course No.	2	146.328	Sub. No.	002	Course Name	System A Mechani Aerospace E	nalysis in cal and U Engineering	Init 3	
Lecturer	Name : Cho, Kyu-Jin (Title : Assistant Professor) Homepage : http://biorobotics.snu.ac.kr/								
	E-ma	-mail : kjcho@snu.ac.kr Telephone : 02-880-1703							
	Office hour : Tuesday and Thursday after class or by appointment								
1. Goal	Prov analy beha ^v which	Provide an overview of the system dynamics and control. Mathematical modeling and halysis of the devices and processes for the purpose of understanding their time-dependent ehavior will be presented. Students will acquire skills to model and analyze dynamic systems hich are the key skills required to design and build any kind of dynamic system.							
2. Textbook and references	1. System Dynamics, William J. Palm III, McGrawHill 2. Control Systems Engineering Norman Nise, Wiley								
3. Evaluation	atter	ndance	homework	mid exam	final exam	project	Quiz	Total	
	5 %		5 %	30 %	45%	5%	10%	100%	
	Quiz will be given from selected homework problems. Short project near the end of the term.								
4. Schedule	week	Schedule							
	1	Introduction							
	2	Laplace Transform							
	3	Mathematical Model of Dynamic Systems							
	4	Transfer function approach to modeling dynamic systems							
	5	State space approach to modeling dynamic systems							
	6	Electrical system							
	7	Fluid/Thermal System							
	8	Midterm							
	9	Time domain analysis of dynamics systems (Mid term)							
	10	first order/second order systems							
	11	Transient analysis							
	12	Analysis with MATLAB							
	13	Frequency Domain Analyses of Dynamic Systems							
	14	Stability							
	15	5 Review/ Final							
5. Notice									