SYLLABUS

Classification	Selective	Course No.	15655	Cr. Hrs.	3:0:3	Instructor	Wang, Se Myung
Course Title	Korean	최적설계					
	English	Optimal Design					
	tline		•	of optimum d	esign , mathr		ing including linear optimization
Prereq	uisite	Linear Algebra, Calculus of Variation					
Textbook and	l References	 Text book: J. S. Arora, Introduction to Optimum Design, McGraw-Hill, 1989. References: E. J. Hang and J. S. Arora, Applied Optimal Design, Wiley, 1979. G. N. Vanderplaats, Numerical Optimization Techniques for Engineering Design with Applications, McGraw-Hill, 1984. G. Strang, Linear Algebra and Its Applications, Academic Pres, 1976. E. J. Hang, K. K. Choi, and V. KomKov, Design Sensitivity Aralysis of Structural Systems, Academic Press, 1986. 					
		W	eekly Cou	ırse Schedu	le —————		
Calendar	Desciption					*R	emarks
1st week	Introduction to Concurrent Design						
2nd week	Optimum Design Problems Formulation						
3rd week	"						
4th week	Optimum Design Concepts						
5th week	"						
6th week	Linear Programming						
7th week	"						
8th week	Unconstrained Optimum Design						
9th week	n e e e e e e e e e e e e e e e e e e e						
10th week	Constrained Optimum Design						
11th week	11						
12th week	Interactive Design						
13th week	Pratical Design						
14th week	Design Sensitivity Analysis						
15th week	"						
16th week	Recent Research Topics						

^{*} If there will be experiments, mark it in the "Remarks".

Instructor Wang Se Myung (Seal)

Dept. Chair Wang Se Myung (Seal)