

Course Number	M2795.006000	Lecture Number	001	Course Title (Subtitle)	Structural Stability	Credits	3
Instructor	Name	Ji-Hwan Kim	Position	Professor	Homepage	http://odyssey.snu.ac.kr	
	E-mail	jwhkim@snu.ac.kr			Tel.	+82-2-880-7383	
	Consult Time & Place		Tue, Thur. pm: 5:00~6:15 , Room : 301-303				
Prerequisites courses	Advanced dynamics, Theory of elasticity						

* 1. Goals	Final goal of this lecture is to review the systematic process for stability behavior of structure under the external loads. General stability characteristics are divided by static behavior and dynamic behavior. Further, comparisons of experiments and theoretical data are summerized.							
* 2. Texts and References	Ziegler, H., <i>Principles of Structural Stability</i> , 1968, Blaisdell Publishing Co.							
* 3. Evaluation	Attendance	Assignment	Mid-term	Final	Quiz	Class Participation	Others	Total
	10 %	15 %	25 %	25 %	15 %	5 %	5 %	100%
	Remarks :							
* 4. Lecture Plan	Lecture Contents							
	Week							
	1	A Simple Problem						
	2	Critical Review						
	3	Lagrange Stability Theorem						
	4	Nongyroscopic Conservative Systems						
	5	Buckling by Tension						
	6	Mass Distribution						
	7	Gyroscopic Conservative Systems						
	8	.Critical Angular Velocities						
	9	Dissipative Systems						
	10	General Aspect						
	11	Destabilization by Damping Forces						
	12	Circulatory Systems						
	13	Flutter						
14	Instationary Systems							
15	Pulsating Compression							
5. Guideline for students								