Course Number	M2795.005800	Lecture Num	iber 001		Course (Sub	e Title title)		Plate and Shell Theory			Credits	; 3	
Instructor	Name	Ji-Hwan Kim Position		Professor		Ho	mepage	http://odyss		ey.snu.ac.kr			
	E-mail	jwhkim@snu.ac.kr Tel. +82-2-880-738								80-7383	í		
	Consult	Consult Time & Place Tue, Thur. pm: 5:00~6:15 , Room : 301-303											
Prerequisites courses		Theory of elasticity											
* 1. Goals	shells. In the lecture, variational principle is to introduce and precise mathematical concepts are summerized. And then, classical, first-order shear deformation and higher-order theories of plate and shell are derived.												
* 2. Texts and References	Text: Lectur Ref.) Dym, So	Text: Lecture note. lef.) Dym, Solid Mechanics, Chia, Nonlinear Analysis of Plate Soedel, Vibrations of Shells and Plates											
* 3. Evaluation	Attendance	Assignment	Mid-term	Fi	inal	Quiz	Z	Class Par	tcipation	Othe	rs	Total	
	10 %	15 %	25 %		25 %	1	5 %		5 %		5 %	100%	
	Remarks :												
* 4. Lecture Plan	Lecture Contents												
	Week												
	1	Preliminary mathematics : Indicial notations											
	2	Calculus of Variation											
	3	Review of 3-Dimensional Elasticity											
	4	- Lagrangian Strains and Stress tensor											
	5	- Equiibrium Equations and Variational Priciples											
	6	Statics of plates - Classical linear theory											
	7	First-order and Higher-order shear deformation theory											
	8	. von Karman Non-linear Plate theory											
	9	Deep Shell Theory - General aspects											
	10	Shell coordinates and Infinitesimal distance in shell layer											
	11	Fundamental form parameters (Lame parameters)											
	12	Stress-Strain Relationships, Strain-displacement relations											
	13	Love simplifications											
	14	- Membrane forces, Bending moments											
	15	Additional comments for applications											
5. Guideline for students													