

Course Number	464.461	Lecture Number		Course Title	Topics in Ship Structural Design (Buckling and Ultimate Strength)	Credit	3
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Instructor	Name : Jang, Beom Seon (Position : Assistant Professor)	Homepage : openlab.snu.ac.kr
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	Consultation Time/Place(English) : 36-307A	

Purpose of Course(English)	This course covers buckling and ultimate strength, one of the most important subjects in the assessment ship and offshore structure. This lecture provides a basic plate & buckling theory, semi-analytical approaches for ultimate strength, and a practical method to assess ultimate strength using nonlinear FE analysis.
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Materials and Reference(English)	<p>Materials</p> <ul style="list-style-type: none"> : SI 재료역학 7판 by Gere and Goodno : Ship Structural Design by Owen F. Hughes : Ultimate Limit State Design of Steel Plated Structures
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Evaluation Method	Attendance	Task	Medium	Final	Academic Attitudes	Other Data	Total
		10%	30%	30%	30%	%	%
	Remark (English)						

References to Course Registration (ENG)	
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Penalty for Cheating(English)	The corresponding examination is scored zero.
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Lecture Plan	Week	Lecture Content
	1Week (English)	01 Introduction
	2Week (English)	02 Column Buckling
	3Week (English)	03 Plate Bending
	4Week (English)	03 Plate Bending
	5Week (English)	04 Buckling and Ultimate Strength of Columns
	6Week (English)	05 Buckling and Ultimate Strength of Plates
	7Week (English)	06 Strength Assessment in CSR
	8Week (English)	Mid Examination
	9Week (English)	07 Elastic and Inelastic Buckling of Stiffened Panels
	10Week (English)	07 Elastic and Inelastic Buckling of Stiffened Panels
	11Week (English)	08 Ultimate Strength of Stiffened Panles
	12Week (English)	08 Ultimate Strength of Stiffened Panles
	13Week (English)	09 Ultimate Strength of Hull Module
	14Week (English)	09 Ultimate Strength of Hull Module
15Week (English)	Final Examination	