

学部 2 単位 / Faculty 2 Credits ※4 年生対象 /for B4

FEN-CO5962L2 国際連携工学特別講義 II

International Collaborators' Lecture on Engineering II

大学院 2 単位 / Graduate School 2 Credits

3799-381 国際連携特別講義 VIII

International Collaborators' Special Lecture on Engineering VIII

Lecturer
Assistant Professor **Do Kyun Kim**

Department of Naval Architecture
& Ocean Engineering,
College of Engineering,
Seoul National University
(SNU)



Advanced Marine Structures

Mon, July 25~Fri, July 29, 2022 (5days+Exam)

▼ Course objectives

This short course aims to equip the skill for structural analysis and design of local structural elements in Marine Structures such as beam-column, unstiffened- and stiffened panel.

▼ Lecture time

July 25~29 ... 9:00 ▶ 13:00 (50mins class + 10 mins break)

Exam: July 29 ... 14:00 ▶ 17:00

▼ Lecture way

Online using ZOOM *Please check the lecture URL on ITC-LMS.

Only Exam: **Face-to-face** in Eng. Bldg. No.3 #31

▼ Language

English

▼ Counterpart at UTokyo

Associate Professor Kazuki Shibamura

Department of Systems Innovation,

School of Engineering

email: shibanuma@struct.t.u-tokyo.ac.jp

▼ Lecture plan

Day 1

<Intro> Module Introduction

<Lecture> L01 Plastic Theory of Bending (Part I: Plastic Design)

<Lecture> L02 Ultimate Loads on Beams (Part I)

<Lecture> L03 Collapse of Frames & Grillage (Part I)

Day 2

<Recap & Tutorial 1> Summary of Day 1 (Part I)

<Lecture> L04 Elastic Plate Theory: Basic (Part II: Elastic Plate Theory)

<Lecture> L05 Simply Supported Plate under Sinusoidal loading (Part II)

Day 3

<Lecture> L06 Long Clamped Plates (Part II)

<Lecture> L07 Short Clamped Plates (Part II)

<Lecture> L07A Strength & Permanent Set (Part II)

<Recap & Tutorial 2> Summary of Day 2-3 (Part II)

Day 4

<Lecture> L08 Failure modes (Part III: Buckling Theory)

<Lecture> L09 Tripping (Part III)

<Lecture> L09A Post-buckling strength of plate (Part III)

<Lecture> L010 Post-buckling behaviour (Part III)

Day 5

Morning

<Recap & Tutorial 3> Summary of Day 4 (Part III)

<Examination Guide Session> Reminder session

for the preparation of Exam

Afternoon

Exam: 3hrs Test by allowing 2 pages of written paper

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Registration is
now open!

Please use the QR code
to register.

