



# 日韓集中講義

The Short Intensive Course Program between UTokyo and SNU



SEOUL  
NATIONAL  
UNIVERSITY

学部 1 単位 / Faculty 1 Credit ※4年生対象 / for B4

FEN-CO5972L3 国際連携工学特別講義 VIII

International Collaborators' Lecture on Engineering VIII

大学院 1 単位 / Graduate School 1 Credit

3799-389 国際連携特別講義 XVI

International Collaborators' Special Lecture on Engineering XVI

Lecturer

Associate Professor

Yong Sung Park

Department of Civil and Environment Engineering,  
College of Engineering, Seoul National University  
(SNU)



# Water Surface Waves

Wednesday, January 22~Friday, January 24, 2025 (3 days)

**Attention:** Students who have received credit for the following courses offered in 2021 do not receive credit for this course. Auditing is permitted.

国際連携工学特別講義 VII/International Collaborators' Lecture on Engineering VII(FEN-CO5971L3)

国際連携特別講義 XV/International Collaborators' Special Lecture on Engineering XV(3799-388)

## Course objectives

To introduce linear and nonlinear wave theories based on firmly established mathematics and to apply to engineering problems.

## Lecture time

January 22~23 ... 9:30▶11:30, 13:30▶15:30

January 24 ... 9:30▶12:00

## Lecture way

January 22~23 ... Eng. Bldg. No.1 Seminar Room B

January 24 ... Eng. Bldg. No.1 #13

## Language

English

## Counterpart at UTokyo

Professor Takenori Shimozono

Department of Civil Engineering,

School of Engineering

## Lecture plan

Day 1:

AM - L01 Review of Fluid dynamics

L02 Linear wave theory

PM - L03 Dispersion relation

L04 Engineering properties

Day 2:

AM - L05 Mid-term exam

L06 Introduction to perturbation methods

PM - L07 Stokes wave theory

L08 Nonlinear shallow-water equations

Day 3:

AM - L09 Boussinesq and KdV theories

\*Graded by a take-home exam

工学系研究科国際工学教育推進機構

Institute for Innovation in International Engineering Education,  
School of Engineering

Contact: H. Sugiura

email: ut-snu@cce.t.u-tokyo.ac.jp

Registration is  
now open!

Please use the QR code  
to register.



\*\*\*Application Form\*\*\*



https://ut-snu.t.u-tokyo.ac.jp/course.h