Course No.	M2794.008600	Lecture No.	001	Course Title (Subtitle)	Inviscid Flow (null)	Credit	3

Representative Instructor				
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Interview Time/Place : Monday/Wednesday 17:00-18:00 / 301-1208				

Attachment	
(Korean)	
(English)	

Prerequisite Course	

*1.Purpose of Course	1. We derive governing equations important for the analysis of various flow phenomena using tensor and review basic concepts related to the fundamental principles of fluid mechanics. 2. We discuss the basic idea and various applications of two- and three-dimensional inviscid flows and also learn the surface waves briefly. 3. We learn the basic idea of panel method and actually solve some problems with it.

*2.Materials and Reference	Materials-Fundamental Mechanics of Fluids-I.G. Currie-MARCEL DEKKER, Inc.

*3.Evaluation Method	Attendance	Task	Medium	Final	Random Evaluation	Attitude	Other	Total
	10	20	30	40	0	0	0	100
	Remark of Others							

*4.Lecture Plan

[1 Week]
Course Introduction, Basic Concept of Tensor Analysis
[2 Week]
Basic Conservation Laws
[3 Week]
Basic Conservation Laws
[4 Week]
Basic Conservation Laws
[5 Week]
Flow Kinetics, Governing Equations
[6 Week]
Two-Dimensional Potential Flows
[7 Week]
Two-Dimensional Potential Flows
[8 Week]
Midterm Exam., Two-Dimensional Potential Flows
[9 Week]
Two-Dimensional Potential Flows
[10 Week]
Panel Method
[11 Week]
Three-Dimensional Potential Flows
[12 Week]
Three-Dimensional Potential Flows
[13 Week]
Three-Dimensional Potential Flows, Surface Waves
[14 Week]
Surface Waves
[15 Week]
Surface Waves, Final Exam.

5.References to Course Registration	English is the main language in the lecture