

# 강 의 계 획 서

교과목명	유체기계	주야	주간	교과 코드	20110303	이수구분	전공필수
학점	3	주당시수	이론(3) / 실기(0)			학점구성	이론(3) 실습(0) 설계(0)
개설학년	2	개설학기	2학기			강의시간	월2/화2,3
담당교수	차동진	상담일시	Thursday 17~18	연구실			
담당조교		상담일시		사무실			
인증구분	인증( ) 비인증 (O)	교과구분			선수권장 과목		e-mail :

교과목의 교육목적	<ol style="list-style-type: none"> <li>1. To develop a sound knowledge of engineering fundamentals required for fluid machinery.</li> <li>2. To develop skills to integrate, synthesize, and apply engineering principles to the design and operation of fluid machinery.</li> <li>3. To develop an appreciation for the importance of professional behavior, ethics and life-long learning in the engineering profession.</li> <li>4. To develop effective skills in both written and oral communications, and the ability to work effectively in a multi-functional team environment.</li> </ol>
교과목의 개요	<p>The basic principles of a common and important application of fluid machinery, that is, pumps and turbines, will be discussed. We emphasize their preliminary design and overall performance. In addition, We discuss how to properly match the requirements of a fluid flow system including building services systems to the performance characteristics of a fluid machinery.</p>

	구분	교재명	저자	출판사	출판년도
교재	주교재	Fluid Mechanics	Y. A. Cengel and J. M. Cimbala	McGraw-Hill	2006
	참고 서적	유체역학(Fluid Mechanics)	이종춘 외(원저: I. Granet)	SciTech Media	1998
	비고				

강의진행 방식	<p>강의(○) 토의(○) 과제평가( ) 현장학습( ) Computer사용(○) Beam Project사용(○) OHP사용(○) VTR사용( ) 기타( )</p> <p>※ 해당란에 모두 표시</p>
------------	--

강의평가 방식	<p>정기평가(40%) 수시평가(30%) 과제평가(20%) 보고서(0%) 퀴즈(0%) 실험(0%) 프로젝트(0%) 발표(0%) 출석평가(10%) 기타(0%)</p> <p>※ 합은 100%</p>
------------	--

## 주별 강의진행계획

주	강의내용	비고
1	Introduction to Fluid Machinery	Lecture and Discussion
2	Momentum Analysis of Flow Systems I (Chapter 6)	Lecture and Discussion
3	Momentum Analysis of Flow Systems II	Lecture and Discussion
4	Dimensional Analysis and Modeling I (Chapter 7) 배관 해석 I	Lecture and Discussion
5	Dimensional Analysis and Modeling II	Lecture and Discussion
6	Flow in Pipes I (Chaper 8)	Lecture and Discussion
7	Flow in Pipes II	Lecture and Discussion
8	Mid-term exam	Exam
9	Compressible Flow I (Chaper 12)	Lecture and Discussion
10	Compressible Flow II	Lecture and Discussion
11	Compressible Flow II	Lecture and Discussion
12	Turbomachinery I (Chaper 14)	Lecture and Discussion
13	Turbomachinery II	Lecture and Discussion
14	Turbomachinery III	Lecture and Discussion
15	Final exam	Exam