朝陽科技大學 094學年度第2學期教學大綱
Fluid Mechanics 流體力學

當期課號	1487	Course Number	1487
授課教師	白子易	Instructor	PAI,TZU YI
中文課名	流體力學	Course Name	Fluid Mechanics
開課單位	環境工程與管理系(四日)二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程探討各種不同領域的流體力學，包括：流體靜力學、元素流體動力學、流體運動學、有限控制體積分析、流體流動微分分析、近似分析、無因次分析、模式模型、黏滯流管流以及明渠流等。本課程不僅探討流體力學的各種領域，亦包括基本數學技巧及相關演算方法。	Objectives	The course investigates various fields in fluid mechanics, including fluid statics, elementary fluid dynamics, fluid kinematics, finite control volume analysis, differential analysis of fluid flow, similitude, dimensional analysis, and modeling, similitude, dimensional analysis, modeling, viscous flow in pipes and open-channel flow. The course not only introduces the principle of each field of fluid mechanics, also the basic mathematical technique and calculated method.
教材	Young D.F., Munson B.R. and Okiishi T.H., A brief introduction to fluid mechanics, 2nd Ed., Wiley, NewYork, US. Young D.F., Munson B.R. and Okiishi T.H., 流體力學(中文版),高立	Teaching Materials	
成績評量方式	1.出席20% (點名4次) 2.期中考30% 3.期末考40% 4.作業報告(10%)	Grading	1.Participate 20% 2.Mid-term exam 30% 3.Final term exam 40% 4.Exercise and report 10%
教師網頁	http://www.cyut.edu.tw/~typai/		
教學內容	本課程探討各種不同領域的流體力學，包括：流體靜力學、元素流體動力學、流體運動學、有限控制體積分析、流體流動微分分析、近似分析、無因次分析、模式模型、黏滯流管流以及明渠流等。本課程不僅探討流體力學的各種領域，亦包括基本數學技巧及相關演算方法。	Syllabus	The course investigates various fields in fluid mechanics, including fluid statics, elementary fluid dynamics, fluid kinematics, finite control volume analysis, differential analysis of fluid flow, similitude, dimensional analysis, and modeling, similitude, dimensional analysis, modeling, viscous flow in pipes and open-channel flow. The course not only introduces the principle of each field of fluid mechanics, also the basic mathematical technique and calculated method.

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