朝陽科技大學 097學年度第2學期教學大綱
Fluid Mechanics 流體力學

當期課號	1825	Course Number	1825
授課教師	王文裕	Instructor	WANG,WEN YU
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	周德明，廖慶聰，龔傑，流體力學(精編版)，歐亞書局，2007	Teaching Materials	Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, “A Brief Introduction to Fluid Mechanics”, 4th Ed., John Wiley and Sons, Inc., USA, 2007
成績評量方式	1.出席率及小考40% 2.期中考30% 3.期末考30%	Grading	1.Participation and quiz 40% 2.Mid-term exam 30% 3.Final exam 30%
教師網頁	http://lms.ctl.cyut.edu.tw/course.php?courseID=4877		
教學內容	本課程探討流體力學，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 fluid mechanics, including fluid statics, elementary fluid dynamics, fluid kinematics, finite control volume analysis, differential analysis of fluid flow, similitude, dimensional analysis, and modeling 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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