# 朝陽科技大學 091學年度第2學期教學大綱
# Fluid Mechanics 流體力學

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| 當期課號 | 2486 | Course Number | 2486 |
| 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 | 1.課堂講解<br>2.作業及講解<br>3.戶外教學<br>4.案例分析<br>5.協助閱讀 | Teaching Materials | 1.Explaining in classroom<br>2.Exercise<br>3.Outside Learning<br>4.Case analysis<br>5.Reading assistant |
| 成績評量方式 | 1.出席20%(點名4次)<br>2.期中考30%<br>3.期末考40%<br>4.作業報告(10%) | Grading | 1.Participate 20%<br>2.Mid-term exam 30%<br>3.Final term exam 40%<br>4.Exercise and report 10% |
| 教師網頁 | | | |
| 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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